

Transmittal Letter

Project: Franklin Elementary School
Contractor: Bakersfield City School District

We are sending you

<input checked="" type="checkbox"/> Attached	<input type="checkbox"/> Under Separate Cover via: [Type text here] the following:		
<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	Other: X
<input type="checkbox"/> Copy of Letter	<input type="checkbox"/> Change Order	<input type="checkbox"/> Samples	
<input type="checkbox"/> Total Quantity	<input type="checkbox"/> Reproducible	<input type="checkbox"/> Specification	

Submittal	Manufacturer	Date	Description
Section 09	Interface	06/25/2025	CT1 Walk off Mat- SR799 Step Repeat Collection - Product Data Sheet
Section 09	Interface	06/25/2025	CT1 Walk off Mat- SR799 Step Repeat Collection - Color Chart
Section 09	Interface	06/25/2025	C2 Carpet Tile - Cubic 19.69 inx19.69 in - Product Data Sheet
Section 09	Interface	06/25/2025	C2 Carpet Tile - Cubic 19.69 inx19.69 in - Color Chart
Section 09	Interface	06/25/2025	CT1 Walk Off Mat & C2 Carpet Tile - Installation
Section 09	Interface	06/25/2025	CT1 Walk Off Mat & C2 Carpet Tile - Maintenance
Section 09	Interface	06/25/2025	CT1 Walk Off Mat & C2 Carpet Tile - Warranty
Section 09	Interface	06/25/2025	Adhesive for C2 Carpet Tiles - Tactile Connectors - Product Data Sheet
Section 09	Interface	06/25/2025	Adhesive for CT1 Walk off Mat - XL Brands Grid set Adhesive 2000 Plus - Product Data Sheet
Section 09	Burke	06/25/2025	Rubber Base- Type TS 4" - Product Data Sheet
Section 09	Burke	06/25/2025	Rubber Base- Type TS 4" - Color Chart
Section 09	Burke	06/25/2025	Rubber Base- Type TS 4" - Installation
Section 09	Burke	06/25/2025	Rubber Base- Type TS 4" - Maintenance
Section 09	Burke	06/25/2025	Rubber Base- Type TS 4" - Warranty
Section 09	Mapei	06/25/2025	Adhesive for Rubber Base - UltraBond ECO 575 - Product Data sheet
Section 09	Mapei	06/25/2025	Adhesive for Rubber Base - UltraBond ECO 575 - Safety Data sheet
Section 09	Ardex	06/25/2025	Feather Finish - Product Data Sheet
Section 09	Ardex	06/25/2025	Feather Finish - Safety Data Sheet

These are transmitted as checked below

For Approval	Approved as Submitted	Resubmit copies for approval
For Your Use	Approved as Noted	Submit [#] copies for distribution
As Requested	Returned for Corrections	Return [#] corrected prints



MICHAEL
SURFACE SOLUTIONS INC.
COMMERCIAL | HOSPITALITY | INDUSTRIAL FLOORING

For Review and Comment

FOR BIDS DUE: [Type text here]

Revise and Resubmit/Work May Not Proceed

PRINTS RETURNED AFTER LOAN

Comments:

Please confirm received to: salescoordinator@michaelsurfacesolutions.com
admin@michaelsurfacesolutions.com

Note:

Choose Color Selection for C2 Carpet Tile.

Choose Color Selection for Rubber Base.

Mohsina, Sales Coordinator

7101 Schirra Ct. Bakersfield, CA 93313 ♦ Ph:661-688-0088 Fax:661-688-0089

CA Lic. # 1088958 (C-15, C-54 & C61/D06) ♦ DIR # PW-LR-1000877947 ♦ SB/SB-PW # 2030882

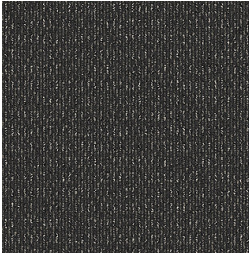
Email: Estimating@michaelsurfacesolutions.com ♦ Website: www.michaelsurfacesolutions.com

Flooring | Tiling | Countertops | Polish Concrete | Epoxy Coating | Waterproof Decking | Gypcrete

SR799

CT1 WALK OFF MAT

Interface®



Installation Method



Quarter turn

All product specifications reflect averages derived from product sample testing, are subject to normal manufacturing and testing tolerances and inherent pattern variances, and may be changed without notice. For more information about these and other important attributes of the product(s) described herein, including recycled content and product warranty information, please see www.interface.com/disclaimer.

Product SR799

Color Onyx

Collection Step Repeat Collection

Backing GlasBac™

Product Specifications

Product Number	1388502500
Product Construction	Tufted Textured Loop
Yarn System	100% Recycled Content Nylon
Yarn Manufacturer	Aquafil
Dye Method	100% Solution Dyed
Soil/Stain Protection	Protekt ² ®
Preservative Protection	Intersept®

More Product Specifications

	Imperial	Metric
Tufted Yarn Weight	26 oz/yd ²	882 g/m ²
Machine Gauge	1/12 in	47.2 ends/10cm
Pile Height	0.19 in	4.8 mm
Pile Thickness	0.14 in	3.6 mm
Stitches	10 /in	39.37 ends/10cm
Pile Density	6,686 oz/yd ³	247,915 g/m ³
Size	19.69 in x 19.69 in	50cm x 50cm

Performance Specifications

Flooring Radiant Panel	(ASTM E-648) Passes
Smoke Density	(ASTM E662) ≤ 450
Flammability	Passes Methenamine Pill Test (DOC-FF1-70)
Lightfastness	(AATCC 16 - E) ≥ 4.0 @ 60 AFU's
Static	(AATCC - 134) < 3.0 KV
Dimensional Stability	AACHEN Din 54318 < 0.10%
Traffic Classification	Severe
Fiber Modification Ratio	1.9 to 2.2
Preservative Efficacy	(AATCC 174 Parts 2&3) 99% Reduction/No Mold 7 Days (ASTM E-2471) Complete Inhibition

Health + Environmental Specifications

Embodied Carbon (Cradle to Gate)	5.25 Kg CO ₂ /M ²
Total Recycled Content	66.13 %
Recycled Content (Pre Consumer)	55.55 %
Recycled Content (Post Consumer)	10.58 %
Indoor Air Quality	Green Label Plus #GLP0820
Material Composition	Free of Added Heavy Metals, Formaldehyde, Fluorinated Chemicals (PFAS), and Halogenated Flame Retardants.
Disclosure of Environmental Impacts	Environmental Product Declaration
Disclosure of Product Ingredients	Health Product Declaration
Environmental Certifications	NSF/ANSI 140 Gold GreenCircle Certified Recyclable
LEED v4	Contributes to multiple IEQ and MR credits
End of Life	Carpet to Carpet Recycling through ReEntry®

Technical Information

Installation	Interface Installation Guidelines
Maintenance	Recommended Interface Maintenance Guidelines
Reclamation	Recyclable through ReEntry® - Call 1.888.733.6873 (U.S.) / 1.866.398.3191 (Canada)
Warranty	15 Year Standard Carpet Warranty
Installation Method	Quarter Turn
Manufacturing Location	ISO 9001 & 14001 Certified facilities in Troup County, Georgia, United States

SR799 Color Range



104934 SMOKE



104935 GRANITE



104936 IRON

CT1 WALK
OFF MAT



104937 ONYX



104915 KHAKE



104916 SABLE



104917 DARK BROWN



104918 MIDNIGHT

Specifications

Modular, 50 cm x 50 cm	13885
Yarn Manufacturer	AquaFil
Yarn System	100% Recycled Content Nylon
Dye Method	100% Solution Dyed
Construction	Tufted Textured Loop
Preservative Protection	Intersept [®]
Soil/Stain Protection	Protok [™]
Pile Thickness	0,14 in, 3,6 mm
Pile Density	6,686 oz/yd ³
Total Recycled Content	66%
Indoor Air Quality	CRI Green Label Plus #GLP0820

View the full product specification on [Interface.com](#)

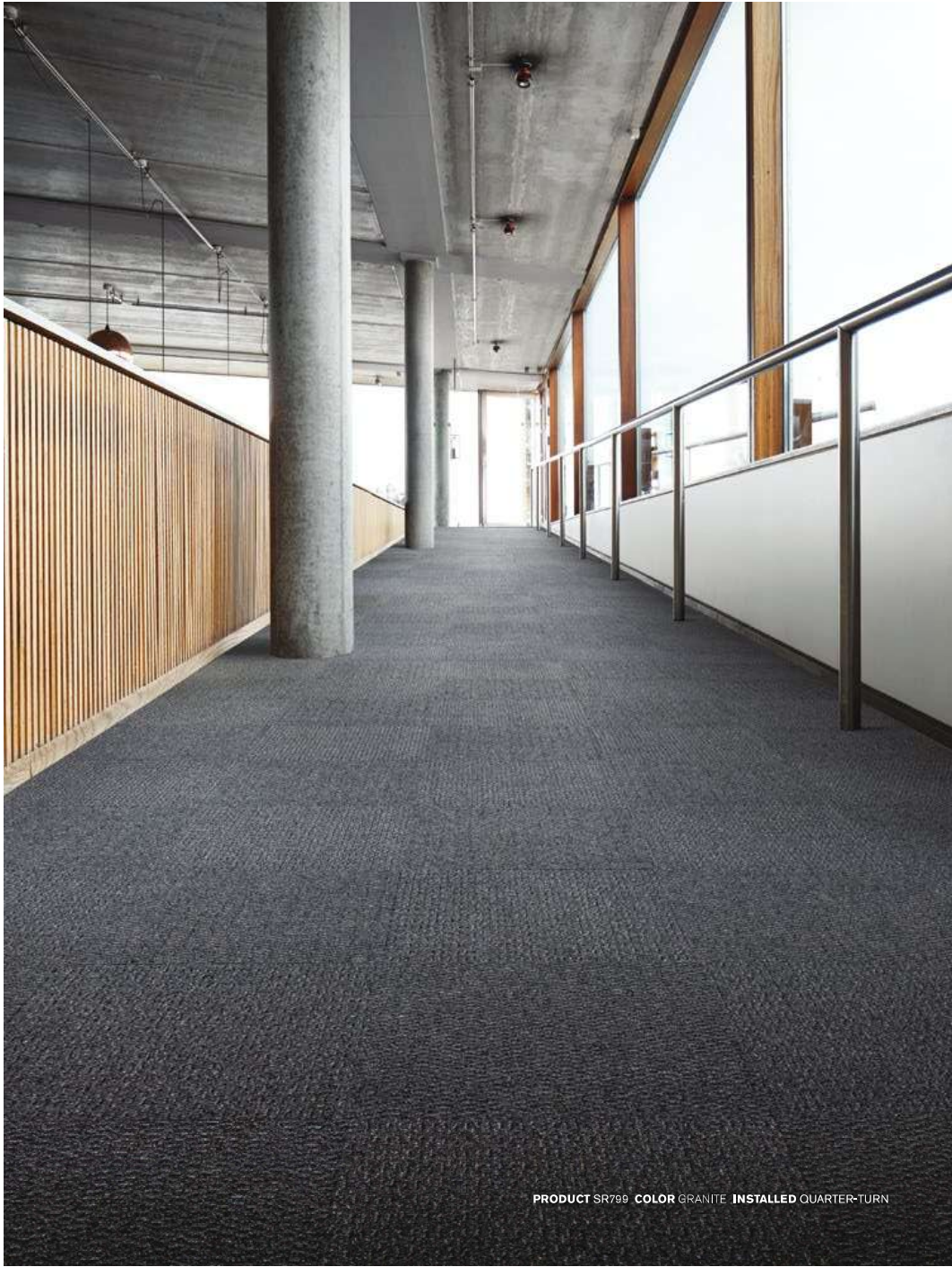
Installation Method



QUARTER-TURN



BROWSE IMAGES
ORDER SAMPLES



PRODUCT SR799 COLOR GRANITE INSTALLED QUARTER-TURN



Installation Method



Non Directional

All product specifications reflect averages derived from product sample testing, are subject to normal manufacturing and testing tolerances and inherent pattern variances, and may be changed without notice. For more information about these and other important attributes of the product(s) described herein, including recycled content and product warranty information, please see www.interface.com/disclaimer.

Product Cubic

Backing GlasBac™

Product Specifications

Product Number	1380102500
Product Construction	Tufted Textured Loop
Yarn System	100% Recycled Content Nylon
Yarn Manufacturer	Aquafil
Dye Method	100% Solution Dyed
Soil/Stain Protection	Protekt ² ®
Preservative Protection	Intersept®

More Product Specifications

	Imperial	Metric
Tufted Yarn Weight	18 oz/yd ²	610 g/m ²
Machine Gauge	1/12 in	47.2 ends/10cm
Pile Height	0.14 in	3.6 mm
Pile Thickness	0.093 in	2.4 mm
Stitches	8.16 /in	32.12 ends/10cm
Pile Density	6,968 oz/yd ³	258,372 g/m ³
Size	19.69 in x 19.69 in	50cm x 50cm

Performance Specifications

Flooring Radiant Panel	(ASTM E-648) Passes
Smoke Density	(ASTM E662) ≤ 450
Flammability	Passes Methenamine Pill Test (DOC-FF1-70)
Lightfastness	(AATCC 16 - E) ≥ 4.0 @ 60 AFU's
Static	(AATCC - 134) < 3.0 KV
Dimensional Stability	AACHEN Din 54318 < 0.10%
Traffic Classification	Severe
Fiber Modification Ratio	1.9 to 2.2
Preservative Efficacy	(AATCC 174 Parts 2&3) 99% Reduction/No Mold 7 Days (ASTM E-2471) Complete Inhibition

Health + Environmental Specifications

Embodied Carbon (Cradle to Gate)	4.62 Kg CO ₂ /M ²
Total Recycled Content	68.1 %
Recycled Content (Pre Consumer)	58.53 %
Recycled Content (Post Consumer)	9.57 %
Indoor Air Quality	Green Label Plus #GLP0820
Material Composition	Free of Added Heavy Metals, Formaldehyde, Fluorinated Chemicals (PFAS), and Halogenated Flame Retardants.
Disclosure of Environmental Impacts	Environmental Product Declaration
Disclosure of Product Ingredients	Health Product Declaration
Environmental Certifications	NSF/ANSI 140 Gold GreenCircle Certified Recyclable
LEED v4	Contributes to multiple IEQ and MR credits
End of Life	Carpet to Carpet Recycling through ReEntry®

Technical Information

Installation	Interface Installation Guidelines
Maintenance	Recommended Interface Maintenance Guidelines
Reclamation	Recyclable through ReEntry® - Call 1.888.733.6873 (U.S.) / 1.866.398.3191 (Canada)
Warranty	15 Year Standard Carpet Warranty
Installation Method	Non Directional
Manufacturing Location	ISO 9001 & 14001 Certified facilities in Troup County, Georgia, United States

Cubic™ Color Range

COLOR TO BE DECIDED FOR C2 CARPET TILE



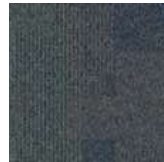
004287 SHAPE



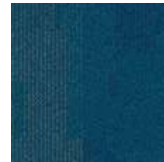
004288 GEOMETRY



004289 MATRIX



004290 PERIMETER



004291 SQUARE



004292 AREA



004294 SURFACE



004295 SYMMETRY



004296 TRANSVERSE



004851 MEASUREMENT



004853 ANGLE



004855 OPTIC



004856 STRUCTURE



004857 FUNCTIONAL



004858 FORM



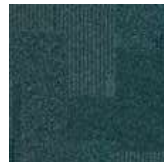
004860 AXIS



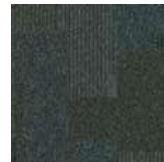
006383 BALANCE



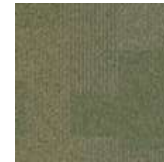
006384 COMPOSITION



006385 VERTICAL



006386 HORIZONTAL



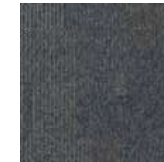
006387 DEPTH



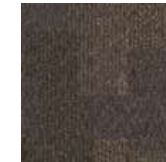
006389 SUPPORTS



006392 DIMENSION



006393 HEIGHT



006395 CONSTRUCTION



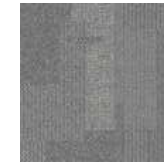
006396 MOVEMENT



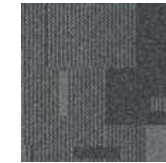
006397 PURPOSE



106068 SOAR



106069 MERIDIAN



106070 PRINCIPAL



106071 PITCH



106072 ZENITH



106073 ALTITUDE



106074 LOFTY



106075 CREST



106076 VERTEX



106077 PEAK



106078 SUMMIT



106079 PINNACLE

Specifications **i2**

Installation Method

Modular, 50 cm x 50 cm
Yarn Manufacturer
Yarn System
Dye Method
Construction
Preservative Protection
Soil/Stain Protection
Pile Thickness
Pile Density
Total Recycled Content
Indoor Air Quality

13801
Aquafil
100% Recycled Content Nylon
100% Solution Dyed
Tufted Textured Loop
Intersept[®]
Protek[™]
0,09 in./2,4 mm
6,968 oz./yd²
68%
CRI Green Label Plus #GLP0820



NONDIRECTIONAL



BROWSE IMAGES
ORDER SAMPLES

View the full product specification on [interface.com](https://www.interface.com)

Installation Instructions for CQuest™ GB, GlasBac,™ GlasBacRE, Graphlar® & Graphlex® Tiles

Interface®

Rev. 04/12/21

Important Notices

These Installation Instructions cover most installation procedures. If you run across a situation that isn't addressed in this document or requires more detailed assistance please contact the Interface Help Desk. U.S. (877) 733-7403 / Canada (888) 224-2972.

All carpet tiles should be carefully inspected for damage or defects prior to installation. Interface will not be responsible for any cost associated with replacement or repair as a result of damaged or defective tiles being installed when said damage or defects were identifiable prior to installation.

If you encounter any conditions or defects during installation that could jeopardize the installation or affect the installation procedure, you should STOP the installation immediately and call the Interface Help Desk. U.S. (877) 733-7403 / Canada (888) 224-2972.

The carpet tiles are warranted in accordance with Interface's Standard Product Warranty. If you do not have a copy of Interface's Standard Product Warranty and wish to obtain one, call the Interface Help Desk. U.S. (877) 733-7403 / Canada (888) 224-2972 or visit our website at **www.interface.com/warranty**.

EXCEPT AS EXPRESSLY PROVIDED IN THE STANDARD PRODUCT WARRANTY, INTERFACE MAKES NO REPRESENTATION OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS OF ITS PRODUCTS FOR ANY PARTICULAR PURPOSES, AND HEREBY DISCLAIMS THE SAME.

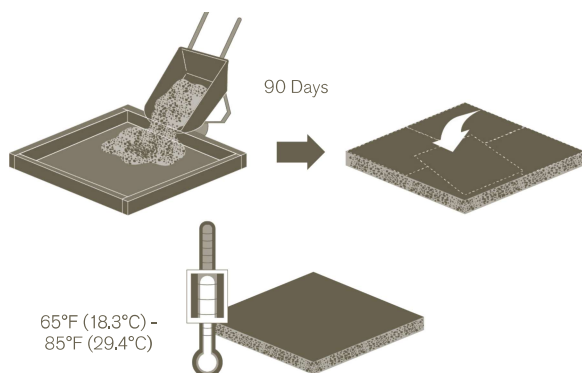
Without limiting the foregoing, Interface will not be responsible for tears, burns, cuts, pulls or other damage, deterioration, problems or loss caused by abuse, neglect, misuse, improper installation, improper maintenance, flood, use on stairs, or use with athletic equipment, or installations over substrates where hydrostatic pressure or groundwater intrusion exists. Moisture and pH testing at the installation site are not the responsibility of Interface, and issues related to or arising from excessive moisture and/or pH are specifically excluded from the Interface warranty except as expressly set forth herein and in Interface's product warranty. The Interface warranty also does not cover any problems or damages arising from or related to the use of adhesives or non-recommended installation techniques or conditions.

WARNING: IN THE EVENT THAT ANY ASBESTOS-CONTAINING MATERIALS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED DURING INSTALLATION, YOU SHOULD STOP THE INSTALLATION IMMEDIATELY AND OBTAIN ASSISTANCE FROM A QUALIFIED REMEDIATION CONSULTANT OR CONTRACTOR PRIOR TO PROCEEDING.

Area Rug Installation Instructions are available at interface.com/install.

Installation Instructions for any product are subject to change. Please check for updates on our website interface.com/install immediately prior to installation.

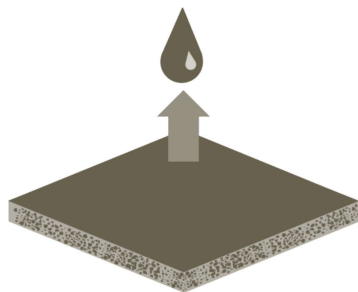
Pre-Installation Visit



Conditioning prior to installation is important for all products. For this reason, the jobsite must be completely sealed (all exterior windows and doors properly installed) before beginning the installation process or before any floor preparations are performed. The jobsite, along with the floor covering materials and adhesive, must be acclimated to a temperature between 65°F (18.3°C) and 85°F (29.4°C) and air humidity from 45% to 65% for at least 48 hours before, during, and continuously after the final installation. The substrate temperature should be at least 5° F (-15°C) higher than the dew point. These conditions are best achieved with a functioning HVAC system.

All carpet tiles must be removed from the cartons and allowed to adjust to the job site temperature for 48 hours prior to installation.

Concrete Moisture and Alkalinity Testing



Before installing, all concrete floors, regardless of age, must comply with the moisture and pH requirements stated below, and must otherwise be suitable for carpet tile installation as set forth herein. The moisture conditions of the concrete should be determined by use of the *In Situ* probe relative humidity (RH) test method (ASTM F 2170). The testing device must be properly maintained and calibrated in accordance with the manufacturer's specifications and frequency recommendations. Certificates of calibration should be maintained for test validation.

Interface allows for carpet tile installation under a variety of conditions depending on the type of slab and the moisture and pH test results at time of installation. For best results we require the pH test developed by Interface. Please see **Standard Practice for pH Testing Concrete Floors p. 11.**

Concrete substrate should have a working vapor barrier. Concrete compromised by ground water intrusion and/or Hydrostatic Pressure are not acceptable substrates for this option and are expressly excluded. The following are the approved adhesives and other limitations for use with the carpet product backing systems listed below. Any installations that are not strictly in accordance with chart below will void the warranty provided.

Carpet Product Backing System	Installation System/ Adhesive	Required Primer	Moisture Limit	Surface pH Limit Must use Interface pH Testing Protocol)
CQuest™GB	TacTiles™*	None	Unlimited RH	Between 7.0 and 9.0
		XL Brands 9511	Up to 97% RH	Between 7.0 and 11.0
	XL Brands Adhesive 2000 Plus (U.S.) or Adhesive 2500 Plus (Canada)	XL Brands RH95	Up to 95% RH	Between 7.0 and 11.0
		None	Up to 90% RH	Between 7.0 and 10.0
GlasBac™/GlasBacRE	TacTiles*	None	Unlimited RH	Between 7.0 and 9.0
		XL Brands 9511	Up to 97% RH	Between 7.0 and 11.0
	XL Brands Adhesive 2000 Plus (U.S.) or Adhesive 2500 Plus (Canada)	XL Brands RH95	Up to 95% RH	Between 7.0 and 11.0
		None	Up to 80% RH	Between 7.0 and 9.0
Graphlar®/Graphlex®	TacTiles*	None	Up to 85% RH	Between 7.0 and 9.0
		XL Brands 9511	Up to 97% RH	Between 7.0 and 11.0
	XL Brands Adhesive 2000 Plus (U.S.) or Adhesive 2500 Plus (Canada)	XL Brands RH95	Up to 95% RH	Between 7.0 and 11.0
		None	Up to 80% RH	Between 7.0 and 9.0

*Be sure to use the correct TacTiles connector for the tile backing – CQuestGB/ GlasBac/GlasBacRE or Graphlar/Graphlex.

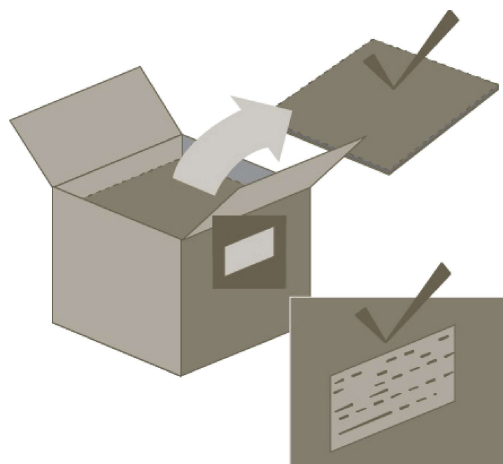
All XL Brands written requirements for product application, including but not limited to moisture and pH testing protocols, must be met for Interface warranty eligibility. More information concerning the proper use of XL Brands can be obtained through your local Interface representative or by visiting www.xlbrands.com.

NOTE: Moisture and pH test reflect only the conditions of the concrete at the time of testing. Stated moisture and pH limitations must be maintained before, during and at all times following installation to avoid installation and product failures and to preserve warranty coverage. If the moisture and/or pH test results are outside of the stated allowable limits, STOP and DO NOT PROCEED with the installation. Seek further advice from Interface before proceeding. Refer to **Preparing the Subfloor** for additional information concerning issues relating to surface conditions of the concrete slab prior to installation.

NOTE: The required pre-installation moisture and alkalinity tests should be performed to ASTM standards. Per CRI guidelines it is recommended that these tests be performed by a qualified independent testing consultant. Interface will not be responsible for failures, problems, or damage arising from high moisture, high alkalinity, or other subfloor conditions.

NOTE: New or bare concrete is defined as concrete free of adhesive residue, paint, sealers, primers and other applied materials.

Product Inspection

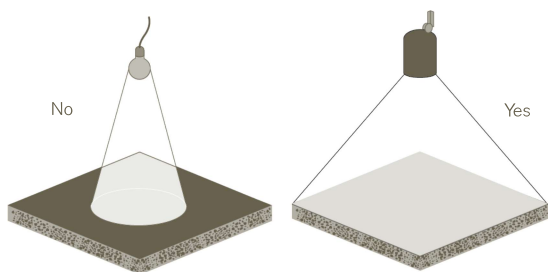


INSPECT INTERFACE CARPET TILES TO BE SURE THEY MEET THE ORDER SPECIFICATIONS. IF THE WRONG PRODUCT OR COLOR IS INSTALLED, INTERFACE WILL NOT BE RESPONSIBLE FOR CORRECTING THE PROBLEM.

The labels on each carton indicate product style, pattern, color, run number and dye lot. Be sure the style, pattern and color match the specifications for each area of your installation.

Check to confirm that you have the right quantity and correct installation method. Be sure you also have enough tiles to establish an "attic stock" for future replacements.

Open all cartons to inspect for damaged or defective tiles. If you find any, call the Interface Help Desk, U.S. (877) 733-7403 / Canada (888) 224-2972.

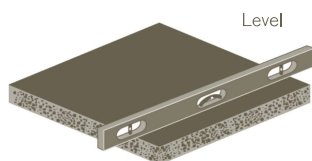


LIGHTING

Ensure adequate overhead lighting is provided. Ideally, lighting should mimic or consist of the same conditions expected at time of occupancy.

INSTALLATION OF CARPET TILES SHOULD BE THE LAST ITEM ON THE CONSTRUCTION SCHEDULE. CAREFULLY CONSIDER THE RISKS IF YOU ARE ASKED TO INSTALL CARPET TILES TOO EARLY. IF CARPET TILES ARE INSTALLED BEFORE CONSTRUCTION IS COMPLETE, ANY STAINING, SOILING OR DAMAGE CAUSED BY OTHER TRADES MAY VOID THE PRODUCT WARRANTY.

Preparing the Subfloor (Concrete)

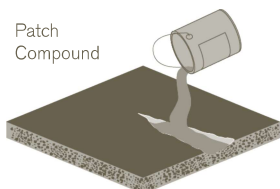


Reference 10' straight edge method. Level is defined as having up to 1/4" maximum gap within 90% of samples taken. No sample should exceed a maximum gap of 3/8".

INSTALLING OVER CONCRETE

All concrete floors must comply with moisture and alkalinity requirements prior to proceeding with installation. (**Concrete Moisture and Alkalinity Testing p. 2**)

Level the floor to the standards outlined in the American Concrete Institute specifications for Concrete Buildings in regard to troweled finish and finishing tolerances. Leveling compounds must be cementitious based.



EXISTING CONCRETE

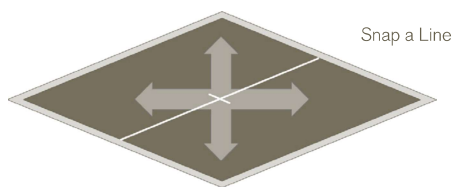
Patch cracks and holes with one of the following approved patching compounds: Ardex Feather Finish, Ardex K-15, Henry's 547, Armstrong S-184 or similar cement based compound. NOTE: Some patching compounds can be mixed with water while some must be mixed with latex. Follow the manufacturer's specifications and instructions for use.

NOTE: All adhesives, solvent based materials and other contaminants should be removed and encapsulated prior to application of adhesive and installation of carpet. Contact the Interface Help Desk, U.S. (877) 733-7403 / Canada (888) 224-2972.

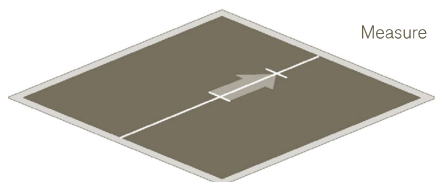
NEW CONCRETE

New or bare concrete is defined as concrete free of adhesive residue, paint, sealers, primers and other applied materials. Interface recommends that dusty and / or porous conditions be primed using XL Brands Prelude or a similar product.

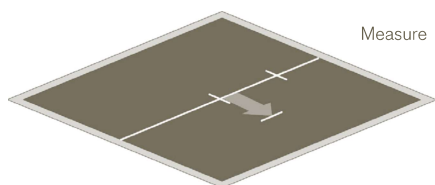
Establishing the Starting Point



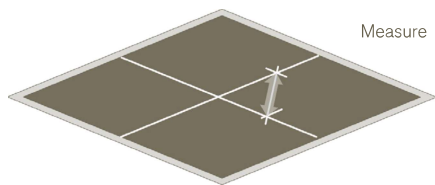
1. Measure to determine the center point and mark. Snap a chalk line.



2. Measure 8 feet (243.8 cm) out from your center point along the chalk line. Make a mark.



3. Measure 6 feet (182.9 cm) from your center point at a right angle to your chalk line and make a mark.



4. Measure the distance between your marks. It should be exactly 10 feet (304.8 cm). If it is, your quadrants will be square. Snap a chalk line here

NOTE: If the room is too small for the above measurements, reduce them by half. Measure 4 feet (121.9 cm) vertically and 3 feet (91.4 cm) horizontally. In this case, the measurement between your two marks should be exactly 5 feet (152.4 cm).

DETERMINE IF CENTER LINES NEED TO BE OFFSET

The need to offset either or both center lines will depend upon the installation method and tile format (squares or planks).

Dry fit (without adhesive) a row of tiles along the entire length of your vertical and horizontal center lines. Go all the way to the walls.

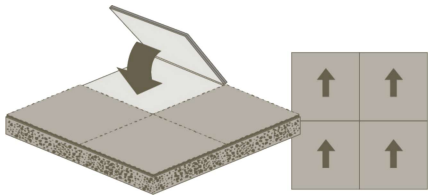
If necessary, offset either or both center lines to ensure perimeter tiles will be cut no less than half size, or 9.84 inches (25 cm).

Installation Methods

Approved installation methods vary by product and are printed on box labels. An arrow is printed on the back of each tile to indicate direction.

SQUARE TILES

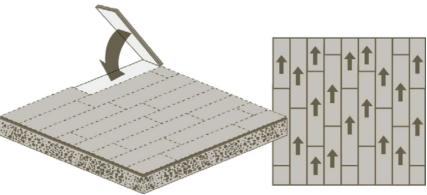
Monolithic Installation



Point all arrows in the same direction.

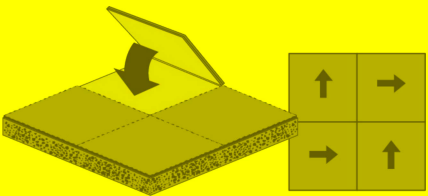
25CM X 1M SKINNY PLANK TILES

Ashlar Installation



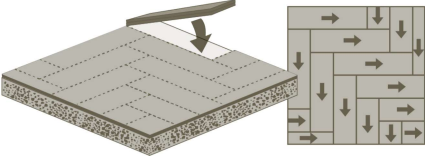
Offset the front and back tile joints. We recommend a variable drop ashlar for our Skinny Planks, as shown here, but our products can also be installed with a half drop ashlar.

Quarter-Turn Installation



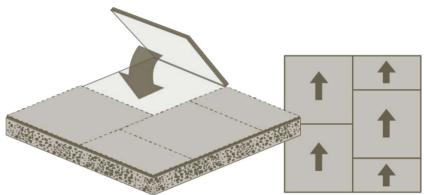
During installation, rotate tiles so that arrows are turned 90 degrees every other tile.

Herringbone Installation



Lay tiles in an L pattern.

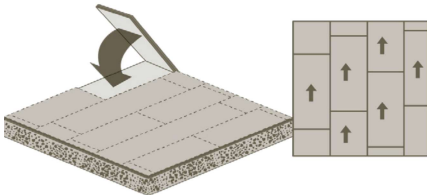
Ashlar Installation



Offset front and back tile joints with arrows facing in the same direction.

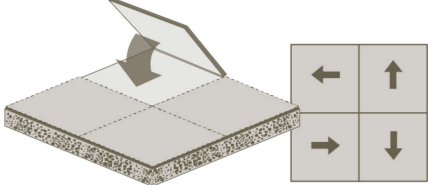
50CM X 1M PLANK TILES

Ashlar Installation



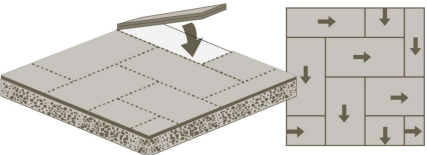
Offset front and back tile joints.

Non Directional Installation



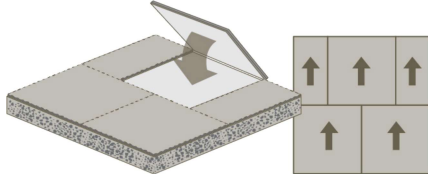
Lay tiles in any direction without regard for the arrows.

Herringbone Installation



Lay tiles in an L pattern.

Brick Installation



Offset the side joints of the tiles with arrows facing in the same direction.

NOTE: INTERFACE ASSUMES NO LIABILITY FOR ISSUES RELATED TO OR RESULTING FROM INSTALLING OUT OF SPECIFICATION, INCLUDING, BUT NOT LIMITED TO, RECOMMENDED INSTALLATION METHOD.

APPLYING TACTILES CONNECTORS

Be sure to use the appropriate TacTiles connector for the product backing.

NOTE: The average number of TacTiles connectors needed depends on the size of the tiles and the installation method used.

50cm x 50cm Square Tiles

- Monolithic, Quarter-Turn, Non Directional – 4/sq. yd.
- Ashlar, Brick – 6/sq. yd.

50cm x 1m Plank Averages:

- Ashlar – 4/sq. yd.
- Herringbone – 5/sq. yd.

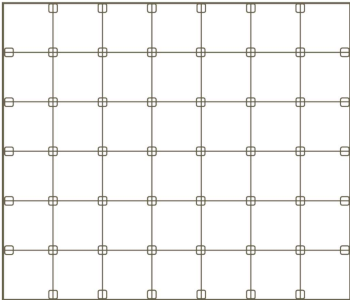
25cm x 1m Skinny Plank Averages:

- Ashlar Random or Variable – 7/sq. yd.
- Herringbone – 8/sq. yd.

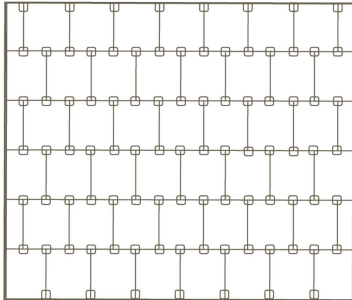
TACTILES CONNECTOR PLACEMENT

Install carpet using a step method (shown on p. 9), placing a TacTiles connector at every corner. Lay anchor rows, placing a TacTiles connector at every joint. Interface recommends securing plank anchor rows with adhesive or two-sided tape. Insert tiles based on approved installation method. TacTiles connectors should be applied based on the following diagrams.

50cm x 50cm Square Tiles

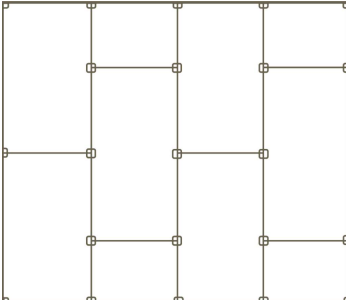


Quarter-Turn / Monolithic / Non Directional Installations / Area Rugs

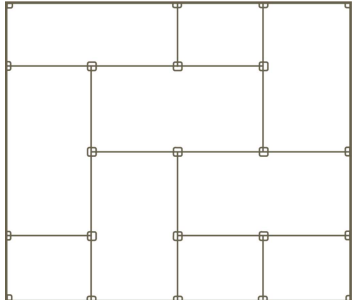


Brick / Ashlar Installations

50cm x 1m Planks

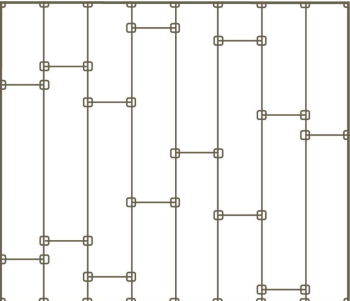


Ashlar Installation

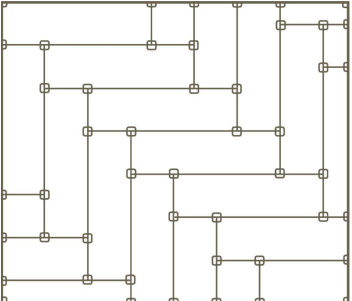


Herringbone Installation

25cm x 1m Skinny Planks



Ashlar Installation



Herringbone Installation

NOTE: WHEN INSTALLING USING INTERFACE TACTILES CONNECTORS, PERIMETER TILES SHOULD BE CUT NET TO THE WALL. IN THE EVENT A WALL OR OTHER TERMINATION POINT DOES NOT EXTEND TO THE SUBFLOOR, THE PERIMETER TILES SHOULD BE INSTALLED USING AN APPROVED INTERFACE ADHESIVE.

Carpet Tile Maintenance Guidelines

Contents

➡ English

➡ Français

➡ Español

➡ Português

www.interface.com

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LaGrange, GA 30240
1.800.336.0225 ext.56511



Climate change is undeniable. And reversible. Our mission is to prove it. Join the #ClimateTakeBack and help create a climate fit for life.

Carpet Tile Maintenance Guidelines

Table of Contents

Introduction 3

- Why is Maintenance Important?
- Comprehensive Maintenance Plan
- Identifying your needs

Frequency Chart 3

Maintenance Techniques 4

- Preventative Maintenance
- Chair Pads
- Vacuum Cleaning
- Spot Cleaning
- Dry Extraction
- Crystallizing Application
- Bonnet Cleaning
- Hot Water Extraction

Cleaning Solutions 5

Maintenance Equipment 5

- Vacuum
- Low Moisture Applicator
- Hot Water Extractor

Consultants and Additional References 6

Why is maintenance important?

By implementing a routine carpet maintenance program, you preserve and maintain your floorcovering and extend the life of your carpet investment. A routine maintenance program includes daily care, such as vacuuming and spot cleaning, in addition to periodic restorative cleaning by hot water extraction. Excessive soils and stains may require different methods or a combination of methods. However, even restorative cleaning typically will not achieve the desired original beauty and appearance of the floorcovering if the carpet has been neglected. Routine care means a longer lasting product, but it is important to implement a maintenance program from the very beginning. Having the right equipment and cleaning solutions along with properly trained technicians is critical to the success of the program. An effective maintenance program is carefully planned and executed on schedule.

Comprehensive Maintenance Plan

An effective maintenance program consists of five key elements:

- Preventative Maintenance – containing the soil entering the building using walk-off mats at entrances. This includes outside matting, inside matting and mats at certain other high traffic interior areas.
- Vacuuming - regular vacuuming is the single most important part of a maintenance program. Vacuuming is designed to remove dry soil matter.
- Spot and Spill Removal – quick response to spills is the key. The faster spills are dealt with the less chance they will leave a stain.
- Interim Cleaning – several different methods can be used. Regularly scheduled interim cleaning can prolong the need for restorative cleaning.
- Restorative Cleaning – deep cleaning designed to remove trapped soils. Hot water extraction is the most effective method and the only restorative method recommended by Interface.

Identifying Your Specific Maintenance Needs

Just as various areas of your office or building are subject to different uses, each area demands a different level of maintenance and care. Heavily trafficked areas such as entrances and corridors require more frequent vacuuming and cleaning. Areas around vending machines and desks need daily attention to spills and stains. Also, certain areas may require different types of equipment to be used. A comprehensive maintenance program should have a chart or diagram of the building's floor space outlining proper cleaning frequency rates, methods and equipment. This well-designed maintenance plan will add years of useful life to your carpet investment.

Commercial Carpet Cleaning Frequency Chart

Traffic Soil Rating	Carpet Owner/Maintainer		Professional Carpet Cleaner/Restorer	
	Vacuuming	Spot Cleaning	Interim Maintenance (Between Restorative Cleanings)	Restorative Cleaning
Light <500 foot traffics per day	1 to 2x per week	Daily or as soon as spots are noticed	1 to 3x annually	1 to 2x annually
Medium (moderate)500-1000 foot traffics per day	Daily in traffic areas. Overall 3 to 4x per week	Daily or as soon as spots are noticed	3 to 6x annually	2 to 4x annually
Heavy 1001 – 2500 foot traffics per day	Daily in traffic areas. Overall 4 to 7x per week	Daily or as soon as spots are noticed	6 to 12x annually	3 to 6x annually
Very Heavy >2500 foot traffics per day	1 to 2x daily in traffic areas. Overall 7x per week	Daily or as soon as spots are noticed	12 to 52x annually	6 to 24x annually

**Recommended frequency guide per IICRC S100
(Institute of Inspection, Cleaning, and Restoration Certification)*

Maintenance Techniques

The ideal maintenance program is designed to help prevent soil from reaching the carpet and to remove soil before it causes damage. To keep your carpet clean and looking like new, this ideal maintenance program uses a combination of methods. These methods are tailored to your facility's needs. Cleaning frequencies are based on the specific needs of trafficked areas in your facility.

PREVENTATIVE MAINTENANCE

Maintaining your carpet's appearance means more than choosing the right cleaning method. Choosing the right products up front contributes greatly to the overall performance of your floorcovering. Using walk-off mats helps keep soil from entering the building. Outside mats are designed to scrape dirt and debris off shoes while interior mats are designed to remove smaller soil particles and help absorb moisture. Interior walk-off mats should extend a minimum of six feet inside the entrance. At 15 feet, these mats can effectively remove 80% of soil and moisture before they reach the carpet. Mats can also be effective in other interior areas, including elevators, around water coolers and food station areas, and at stair thresholds. Walk-off matting should be maintained the same way as interior carpet by using the frequency guidelines for 'Very Heavy' based on the **chart on page 3**.

CHAIR PADS

Chair pads are NOT required with any Interface carpet.

VACUUM CLEANING

A good vacuuming program is essential to the success of your carpet maintenance efforts. Effective daily vacuuming reduces the frequency of periodic maintenance procedures required to maintain clean carpet. In addition to removing soil, vacuum cleaning also helps to lift and restore pile, particularly for cut pile carpet. Proper equipment and technique are critical to the success of a vacuuming program.

Machines with cylindrical brushes should be used and set so that brushes are in contact with pile surfaces. Twin motor machines with independent motors for suction and brushing are preferred for this task. In most cases upright vacuum cleaners are advised. Canister, backpack type machines without brushes, and riding sweepers with rotary brushes are generally not recommended, but their use will not void the product warranty. Vacuums with top loading soil bags and HEPA filters are highly recommended. The Carpet and Rug Institute has a Seal of Approval program that grades various maintenance equipment, including vacuum cleaners. For a list of these certified vacuum cleaners see the CRI website at www.carpet-rug.org.

The frequency of vacuuming is determined by visual inspection but should be done daily. Heavy traffic areas such as lobbies, entryways and barrier mats, particularly those exposed to various weather conditions, may require more frequent vacuuming. Vacuuming these areas more than once a day will help prevent soil from being tracked into other areas. The procedure for thorough vacuuming is using slow overlapping strokes, making sure that the entire carpet surface is covered. Strokes should be no longer than 2-3 feet in length to avoid constant bending.

SPOT CLEANING

Daily removal of spots and spills helps maintain the carpet's appearance between scheduled cleanings. Immediate action against spots and spills also reduces the probability of a permanent stain. It is important to use solutions that are appropriate for the specific type of spot or spill – water-based, oil-based, or solids, including gum. Use spotting solutions sparingly and always try to remove the spot with water only before using a spotting solution. If available, using a portable extractor will significantly improve the ability to remove spots.

Treating Water-Based Spots

For liquid spills, start by blotting up as much of the liquid as possible with a clean white cloth. If the spill is semi-solid or has hardened, gently scrape it with a spoon or spatula, and then blot the spot with a damp sponge. Always work from the edge of the spot towards the center. Never rub across a wet spill in a manner that causes the stain or contamination to be spread from the original area.

If spot remains after using water, use a general purpose spot cleaner. Apply a minimal amount of solution and use a hand brush to gently agitate the solution. Rinse with water and allow the area to dry about 1 hour before vacuuming. Repeat the application if necessary. Protect the freshly cleaned area until the carpet is completely dry. *Do not brush aggressively on the spot.*

Treating Oil-Based Spots

When removing oily stains such as paint, grease, tar, or asphalt, it will be necessary to use a cleaner specifically designed for these types of spots. Always check for colorfastness by applying your cleaning solution to an inconspicuous area of the carpet. Spray or pour the cleaning solution onto a white cloth and press it onto the carpet. Check the cloth for any evidence of dye transfer. If color transfer is evident, do not use the solution. If colorfastness is not a problem, apply your solution sparingly to a clean white cloth and press the cloth onto the spot.

Again, do not rub across the stain, but wipe gently from the outer edge toward the center of the spot. Repeat the procedure until the spot has been removed. Rinse with water and allow the area to dry about 1 hour before vacuuming. Protect the freshly cleaned area until the carpet is completely dry.

NOTE: IF AVAILABLE, A SMALL PORTABLE EXTRACTOR MAKES THE TASK OF FLUSHING SPOTS AND REMOVING EXCESS MOISTURE MUCH EASIER. IF STAIN CANNOT BE REMOVED, PLEASE CONTACT AN INTERFACE CONSULTANT.

DRY EXTRACTION

The low moisture dry extraction method is a safe, easy, and effective method for handling maintenance on a regular basis. The procedure uses a moist compound (powder) that does not leave the carpet wet and allows for immediate access and traffic once the procedure is complete.

Follow this process for dry extraction: Thoroughly vacuum the carpet. Spread extraction compound on the carpet and then agitate using a low moisture applicator with counter rotating brushes to gently brush the moist compound into the fiber, dislodging and dispersing accumulated soil. Allow 30 minutes for drying before thoroughly vacuuming compound and soil from the carpet.

CRYSTALLIZING APPLICATION (ENCAPSULATION)

The crystallizing method of maintenance is a low moisture procedure similar in some respects to the dry extraction method but instead of using the powder, a liquid encapsulation solution is used. This process is designed to encapsulate the soil as the solution dries, forming small crystals that can easily be vacuumed out of the carpet. Benefits include immediate access to the area without the necessity of extended drying time.

Follow this procedure for crystallizing application: Thoroughly vacuum the carpet. Apply the encapsulation solution using an electric sprayer or a simple pump-up garden type sprayer. Agitate the carpet pile using a low moisture applicator with counter rotating brushes to gently brush the solution into the fiber, dislodging and dispersing accumulated soil. Allow time for the solution to dry. Drying time will vary according to several factors, including humidity, air flow and air temperature, but it's typically 30 - 60 minutes. Finish with vacuuming.

BONNET CLEANING

NOTE: USE OF A BONNET OR ANY OTHER TYPE OF ROTARY MACHINE FOR CLEANING OR DRYING IS NOT RECOMMENDED AND MAY VOID ALL WARRANTIES.

HOT WATER EXTRACTION

As like with all other maintenance methods, always prepare the carpet by vacuuming.

Hot water extraction is an effective method for removing heavy soil and residue from carpeting. Start by applying a detergent pre-spray appropriate for carpet with an electric or pump type sprayer. The application should cover the entire carpeted surface, not just the traffic lanes. Agitate the pre-spray with a dual brush counter-rotating low moisture applicator. Allow 10 minutes of dwell time. Using only clean water in the extractor, thoroughly rinse the carpet. For heavily soiled high-traffic areas the procedure can be repeated until the extracted water is relatively clear. The hot water extraction method injects water into the carpet. The injected water suspends the soil and contaminants in the solution for easy removal by the built-in vacuum system.

The recommended technique: Operate the floor wand or self-contained extractor by engaging the solution valve or button and pulling or pushing the equipment for approximately three to five feet (or at a comfortable distance). Release the solution valve before reaching the end of your pass to assure that you vacuum up all of the solution. Cover the same area two or three times both with solution and without solution (suction only) to remove as much soil and moisture from the carpet as possible. Overlap each stroke approximately two inches on the area already cleaned and proceed as described above. Make several additional passes with the solution valve off to remove as much moisture from the area as possible. It is important not to over wet the carpet and to remove as much moisture as possible to expedite drying. Make sure HVAC system is on and use drying fans (air movers) on wet areas during and after cleaning to allow the carpet to dry completely. Complete the procedure with a thorough vacuuming.

NOTE: ALTHOUGH IT IS RECOMMENDED THAT WATER TEMPERATURE RANGE BETWEEN 110° - 130°F, USING WATER WITH TEMPERATURES ABOVE THAT RANGE, TYPICAL WITH TRUCKMOUNT EXTRACTION, WILL NOT DAMAGE OUR PRODUCTS. LIKEWISE, COLD WATER CAN BE USED, BUT ONLY WITH A DETERGENT DESIGNED FOR COLD WATER USE.

NOTE: DRYING TIMES WILL VARY BASED ON INTERNAL AND EXTERNAL ENVIRONMENTAL CONDITIONS. PLAN ON A MINIMUM OF 3 HOURS UNDER NORMAL CONDITIONS. DO NOT ALLOW FOOT TRAFFIC ON THE CARPET UNTIL IT IS DRY. ALLOWING FOOT TRAFFIC BEFORE CARPET IS DRY CAN CAUSE FIBER DAMAGE AND RAPID RE-SOILING.

Cleaning Solutions

Some commercial carpet cleaning solutions are very harsh and can damage the carpet fiber. It is important to select solutions that meet the basic standards outlined here and to evaluate each product before using it.

Interface brand carpets can be maintained using a number of widely recognized and readily available carpet cleaning agents. Some cleaners have actually earned the Carpet & Rug Institute's Seal of Approval. For a list of these certified cleaning solutions see the CRI website at www.carpet-rug.org. Always follow the manufacturer's recommended guidelines for using any cleaning solution. Avoid products with pH levels over 9.5 and products that contain toxic or flammable solvents. Do not use oil-based defoamers of any kind. Detergents designed for use in hot water extraction equipment should not contain an oil-based defoamer and caution should be used with the amount of detergent added. Oil-based defoamers have the potential to leave oily residues and adding too much detergent could leave excess detergent on the carpet. Both scenarios will lead to rapid re-soiling and the need for more frequent cleanings. In

addition, cleaning solutions containing optical brighteners should not be used. Optical brighteners can adversely affect the coloration of carpet and lead to premature aging or yellowing of the carpet.

Cleaning solutions used for interim and/or restorative cleaning should be tested for sticky residues that may cause re-soiling. To test a solution, pour a small amount in a clean glass dish. Allow the solution to air dry completely (24 hours minimum). Break up any hard residue on the surface of the glass dish and examine it. If the residue can be characterized as dry powder, dry flakes or dry crystals, the solution is acceptable. If the residue appears oily, greasy, sticky, or in waxy flakes, the solution is not acceptable since it would likely contribute to rapid re-soiling.

Spotting solutions should be used as needed and should be flushed out with clean water after the spot has been treated.

Maintenance Equipment

Using the right equipment is as important as using the right cleaning solutions and the best techniques. These guidelines provide the basic technical specifications you need for key pieces of carpet maintenance equipment.

VACUUM (FOR TWIN MOTOR UPRIGHTS)

Power	▪ 8 amp
Filtration	▪ Down to 0.3 microns or lower
Vacuum	▪ 60" water lift-motor or better @ 90+ cfm
Brush	▪ Toothed belt drive preferred
	▪ Brush speed 2,500 - 5000 rpm
	▪ Brush diameter 2" - 3½"
	▪ Brush height adjustment essential; self-adjusting design preferred
Working Width	▪ 15" - 30"
Dust Bag Capacity	▪ 300 - 400 cubic inches

NOTE: VACUUM CLEANER SHOULD HAVE THE CARPET AND RUG INSTITUTE'S SEAL OF APPROVAL THROUGH THEIR SEAL OF APPROVAL/GREEN LABEL CERTIFICATION PROGRAM. TOP-LOADING DUST BAG MACHINES WITH HEPA FILTERS ARE STRONGLY RECOMMENDED. WALK-BEHIND OR RIDING FLOOR SWEEPERS ARE NOT RECOMMENDED.

LOW MOISTURE APPLICATOR

Power	▪ 2-8 amp
Width	▪ 12" - 22"
Brushes (2)	▪ 10" - 20" Counter-rotating
Brush speed	▪ 400 - 500 rpm

HOT WATER EXTRACTOR

Power	▪ 10 - 15 amp
Fluid Delivery	▪ minimum of ½ gallons/minute - 100 psi
Tanks	▪ 8-20 gallon solution
	▪ 8-20 gallon recovery
Vacuum	▪ 100" - 140" water lift at around 90-100 cfm
Vacuum Shoe	▪ minimum of 11" - 18" wide for wands and portable extractors
Wheels	▪ Non-marking 4" - 10" diameter
Water Temp	▪ minimum of 120°F

NOTE: ALTHOUGH IT IS RECOMMENDED THAT WATER TEMPERATURE RANGE BETWEEN 110° - 130°F, USING WATER WITH TEMPERATURES ABOVE THAT RANGE, TYPICAL WITH TRUCKMOUNT EXTRACTION, WILL NOT DAMAGE OUR PRODUCTS. LIKEWISE, COLD WATER CAN BE USED, BUT ONLY WITH A DETERGENT DESIGNED FOR COLD WATER USE.

Consultants

For more information about carpet maintenance, please contact one of the following consultants:

UNITED STATES

Mark French – Director of Field Services

(office) 706-812-6268

(cell) 706-302-1174

mark.french@interface.com

CANADA

Steven Twiss – Client Relations Manager

(office) 800-336-0225 x 52117

(cell) 613-848-8793

steven.twiss@interface.com

Additional References

Carpet and Rug Institute - **www.carpet-rug.org**

The Institute of Inspection, Cleaning and Restoration Certification - **www.iicrc.org**

Interface Standard Product Warranty

Contents

➤ English

➤ Español

➤ Português

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Climate change is undeniable. And reversible. Our mission is to prove it. Join the #ClimateTakeBack and help create a climate fit for life.

Interface Standard Product Warranty – Americas

Interface®

Rev. 4/1/19

InterfaceFLOR, LLC (Interface) warrants its Interface® brand carpet products to the original end-use customer as stated below for a period of 15 years from the date of invoice. Interface® brand carpet products are warranted against manufacturing defects resulting in excessive surface wear, edge ravel, backing separation, shrinking, stretching, cupping, doming, and static electricity. Excessive surface wear means loss of more than 10% by weight of face fiber, assuming proper installation and maintenance strictly in accordance with Interface's Carpet Tile Installation Instructions and Carpet Tile Maintenance Guidelines, both of which can be found on Interface's website. Products containing Intersept® antimicrobial are warranted to maintain antimicrobial effectiveness. Products constructed of 100% solution dyed yarns are warranted against excessive color loss due to normal exposure to indoor light. All installations must be completed strictly in accordance with Interface's Carpet Tile Installation Instructions. In all installations, there must be no visible moisture on the surface of the concrete slab. Archived written and photographic evidence of moisture and alkalinity test results must be maintained by original end-use customer.

This warranty does not cover tears, burns, cuts, pulls or other damage, deterioration, problems or loss caused by abuse, neglect, misuse, improper installation, improper maintenance, flood, use on stairs, or use with athletic equipment, or installations over substrates where hydrostatic pressure or groundwater intrusion exists. Moisture and pH testing at the installation site are not the responsibility of Interface, and issues related to or arising from excessive moisture and/or pH are specifically excluded from this warranty except as expressly set forth herein and in Interface's installation instructions. This warranty does not cover any problems or damages arising from or related to the use of adhesives or non-recommended installation techniques or conditions.

If a product fails to perform as warranted, Interface will correct the problem in the affected area either by repair or (at Interface's option) replacement with comparable products(s) at no charge to the customer (the customer must provide reasonable cooperation to facilitate Interface's repair or replacement in the affected area). Warranty claims must be made in writing to Interface within a reasonable time from the discovery of the claimed warranted defect, but in any event they must be received no more than 90 days from the time the claimed defect was discovered. Warranty claims must be addressed to: Field Services Department, InterfaceFLOR, LLC, 1503 Orchard Hill Rd., LaGrange, Georgia 30240. Warranty claims must include contemporaneous documentation that all warranty conditions were and continue to be met. This warranty will be void if its terms are not followed. No person other than an officer of Interface may authorize a waiver or modification of the terms of this warranty, which must be in writing and signed by that officer.

THE WARRANTY, REMEDY AND LIMITS OF LIABILITY CONTAINED HEREIN ARE EXPRESSLY IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES, REMEDIES AND LIABILITIES, WHETHER EXPRESS OR IMPLIED. INTERFACE MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, AND HEREBY DISCLAIMS ANY AND ALL OTHER WARRANTIES THAT MAY ARISE BY OPERATION OF LAW, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS OF ITS PRODUCTS FOR ANY PARTICULAR PURPOSES. NOTE THAT SOME JURISDICTIONS DO NOT PERMIT DISCLAIMERS OF SOME IMPLIED WARRANTIES, SO YOUR RIGHTS MAY BE DIFFERENT THAN STATED HEREIN. INTERFACE WILL NOT BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES IN ANY CASE.



Chemical Composition	Compounded synthetic rubber, applied to PET polyester backing with PET polyester release liner.
Appearance	Clear 75mm x 75mm polyester squares with coloured print, supplied on clear polyester release liner. Available in rolls or sheets.
Product Specifications	Solids (%) Greater than 99 % Dimensions 75mm x 75mm
Product Description/ Applications	<p>TacTiles connectors replace adhesives when used to install Interface modular carpet with CQuest™Bio, CQuest™BioX or Graphlex® backings only. TacTiles connectors have an exceptionally low odour and “zero” calculated VOC's, which make them ideal for use in schools, healthcare facilities, public and private buildings and any place where odour is a concern.</p> <p>TacTiles connectors use a small quantity of a pressure sensitive adhesive, applied on one side of a polyester film, to connect Interface carpet modules together.</p> <p>TacTiles connectors facilitate installation of Interface modular carpet tile products in a flooring system that is “stable, firm, and slip-resistant and does not pose a trip-ping hazard.” See United States Access Board -Americans With Disabilities Act Accessibility Guidelines -Bulletin #4: “Ground and Floor Surfaces”.</p> <p>Surface preparation requirements for installations with TacTiles connectors are the same as those for installations where adhesives would be used. See Interface recommended Installation Guide at www.interface.com</p> <p>TacTiles are not recommended for installation of carpet tiles on stairs, ramps, in spaces with heavy rolling loads or over existing carpet surfaces.</p> <p>The flammability performance of Interface modular carpet remains the same when TacTiles connectors are used in place of adhesives.</p> <p>The adhesive used on TacTiles connectors for CQuest™Bio, CQuest™BioX or Graphlex® resists water and alkaline solutions, but is not plasticizer resistant so be sure to use only with CQuest™Bio, CQuest™BioX or Graphlex® backed Interface products.</p>
Storage Conditions	TacTiles connectors are generally resistant to both moisture and temperature. TacTiles connectors that become wet should be allowed to air-dry before being used.
Product Installation	Please refer to the Interface installation guide for full details.

Grid Set Green Adhesive 2000 Plus

Acrylic resilient flooring adhesive • Meets CA 01350 Requirements • CRI™ Green Label Plus Approved

Manufactured by an ISO 14001:2004 EMS Certified Company

Grid Set Green Adhesive 2000 Plus is an acrylic adhesive with extremely aggressive tack, formulated to provide high shear and peel strength for installing Interface's luxury vinyl tile (LVT), vinyl plank (LVP) and modular carpet tiles. **Grid Set Green Adhesive 2000 Plus** forms a secure plasticizer and moisture resistant bond. This high solids adhesive is non-staining and contains InterSept™ antimicrobial system for enhanced resistance to mold and mildew and to protect the adhesive from bacterial and fungal growth. **Grid Set Green Adhesive 2000 Plus** is CRI™ Green Label Plus approved by The Carpet and Rug Institute for Indoor Air Quality.

BEFORE YOU BEGIN:

Important: Proper substrate preparations are essential. Moisture testing must be performed and documented before installation begins. Read XL Brands Technical Bulletin titled Substrate Preparation for complete instructions before beginning installation. This document may be found at www.xlbrands.com/resources/technical-bulletins/substrate-preparations. If you have questions, contact XL Brands Technical Department at 706-508-5907 Mon-Fri, 8:00am - 5:00pm EST before you begin.

SUBSTRATE CONDITIONS:

Use on concrete substrates with up to 90% RH for flooring installed on or above grade (per current ASTM F2170), and pH of 8.0–10.0.

USAGE:

Follow Interface's installation instructions and proper adhesive application rate. All substrate preparation and testing procedures must conform to appropriate ASTM F710 guidelines, and comply with Interface's specifications.

NOTE: It is up to the end user to determine the coverage that is appropriate for flooring and jobsite conditions. Bond testing prior to the installation will help identify the appropriate application rate, open and working time, and any potential bonding problems to the substrate or flooring. Follow the Interface installation instructions and guidelines regarding adhesive application rate and method.

Installing Carpet Tile:

Spread the adhesive with a 1/16" x 1/32" x 1/32" U notched trowel, or roller for direct bonding to concrete, and allow to dry completely before placing tiles for a releasable installation. Drying time is approximately 30 minutes, depending on ambient humidity and temperature. Roll the installation in both directions with a 75-100 lbs. 3-section roller immediately after the installation is complete.

Installing Carpet Tile for a Double-Bond Application:

Spread the adhesive onto the substrate using a 1/16" x 1/16" x 1/16" square notch trowel and allow drying before placement of the cushion underlayment. After the placement of the cushion underlayment apply adhesive on top of the cushion using a 1/16" x 1/32" x 1/32" U notch trowel allowing the adhesive to completely dry before placing the carpet tiles allowing for a releasable bond/installation. Roll the installed carpet tiles in both directions using a 75-100lb 3-section roller. Cushions used for this type of installation are **non-porous and are not breathable**; use a **dry-lay installation method ONLY** for this system.

INSTALLING LVP & LVT OVER POROUS SUBSTRATES:

- When installing luxury vinyl plank and tile over a porous substrate use a 1/16" x 1/32" x 1/32" U-notch trowel. The adhesive should be allowed to dry to the touch sufficient to prevent slippage. Loss of adhesion can result if the flooring is not installed within the working time of the adhesive. Roll the installation in both directions with a 75-100 lbs. 3-section roller immediately after the installation is complete.

INSTALLING LVP & LVT OVER NON-POROUS SUBSTRATES:

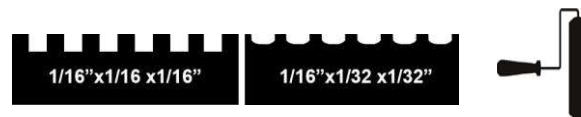
- When installing luxury vinyl tile and plank flooring over a non-porous substrate use a 1/16" x 1/32" x 1/32" U-notch trowel. The adhesive should be allowed to dry to the touch. This will normally require 30–60 minutes of drying time at suggested installation temperature and humidity. Do not install flooring into wet adhesive on non-porous substrates. Roll the installation in both directions with a 75-100 lbs. 3-section roller immediately after flooring is placed, ensuring complete contact with adhesive.

COVERAGE:

1/16" x 1/16" x 1/16" Square-notch trowel-160-180 square feet per gallon.

1/16" x 1/32" x 1/32" U-notch trowel-220-260 square feet per gallon.

3/8" short nap paint roller- 350 – 400 square feet per gallon



TRAFFIC:

Follow Interface's installation guidelines; otherwise restrict foot traffic for 24 hours after installation. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation. Additional time may be necessary if the installation is over a non-porous substrate. Allow at least five days following the installation before conducting wet cleaning procedures or initial maintenance.

CLEAN UP:

Use a clean wet cloth to clean up adhesive while still wet. Dried adhesive may require the use of an appropriate solvent.

LIMITATIONS:

Do not allow product to freeze. Do not use on substrates that have been chemically cleaned or over treated plywood. Do not install over asphalt-based (cutback) adhesive residues.

SHELF LIFE:

Two years from date of manufacture, in unopened, properly stored container. Store indoors at a temperature between 65-95°F.

LEED v4 Credits (where applicable):

- IEQ Credit 2.1, 2.2

VOC content is below that established by California SCAQMD Rule 1168.

Complies with CA Section 01350 for Indoor Air Quality.

Disclaimer: The information and statements herein are believed to be reliable, but are not to be construed as a warranty or representation for which the manufacturer assumes legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or product referred to herein. No warranty of fitness for a particular purpose is made.

XL Brands is a registered trademark of Bostik, Inc. CRI is a registered trademark of The Carpet and Rug Institute.

Revision: 05.30.2018 / Supersedes: 04.20.2017

RUBBER BASE

Mannington®
COMMERCIAL

BurkeBase®

Style	BurkeBase (PVC-Free) Premium TS Molded Wall Base 1/8" *	BurkeBase Type TP 1/8" ** (Non-Ortho Phthalate)
Construction	Thermoset Rubber	Thermoplastic Rubber
Finish	Satin	Matte
Classification	ASTM F1861 Type TS, Group 1	ASTM F1861 Type TP, Group 1
Total Thickness	1/8" (3.2 mm)	1/8" (3.2 mm)
Profile	Coved 4" (102 mm) 6" (152 mm)	Coved or Toeless 2.5" (64 mm) 4" (102 mm) 4.5" (114 mm) 6" (152 mm)
Colors	25	100 (36 are Accord)
Packaging	25-4' pieces = 100' per carton	1-100' continuous roll or 25-4' pieces
Weight Per Carton – 2.5" / 4" / 4.5" / 6"	Coved = 39/53 lbs.	Coved = 25/38/41/53 lbs. Toeless = 24/36/40/52 lbs.
Weight Per Carton – Corners	Coved = 4/7 lbs.	Coved = 3/4/4/9 lbs. Coved = 3/4/4/9 lbs.
Corners (must be ordered at time of wall base order to ensure color match)	Factory molded corners available	Factory pre-formed corners available
Adhesive	MR-101	MR-101
Testing		
Static Load (ASTM E970)	500 psi	
Flooring Radiant Panel (ASTM E648)	Passes - Class I; ≥ 0.45 watts/cm²	
Smoke Density (ASTM E662)	Passes - < 450	
Environmental Data		
Indoor Air Quality	FloorScore Certified	
Product Declarations	Third party verified EPD, HPD	
Carbon Offset	105% Cradle to Gate (A1-A3); see website for additional information	
LEED Scoreboard	May contribute to LEED and Green Globes credits LEED 2009: MRc5 Regional Material; IEQ4.1 Low Emitting Adhesives; IEQ4.3 Low Emitting Materials - Flooring LEEDv4: IEQc2 - Low Emitting Materials	
mindful MATERIALS	For more information on environmental and material health data, visit mindfulmaterials.com/?query=mannington	
Manufacturing	Calhoun, GA and Eustis, FL (USA); Buy American Act compliant	
Warranty		
	Limited 5-Year Commercial Warranty	

- Maintain a minimum temperature in the spaces to receive the wall base and accessories of 65°F (18°C) and a maximum temperature of 85°F (29°C) for at least 48 hours before, during and for not less than 48 hours after installation. Thereafter, maintain a minimum temperature of 55°F (13°C) in areas where work is completed. Dirt, wetness and improper maintenance may cause significant variation in actual performance. Such variations do not affect product performance.
- Specifications are based on averages from normal manufacturing tolerances.
- This product is intended solely for use indoors and is not recommended or sold for any other purpose.

* Type TS Coved 4" lengths available in 4" and 6".

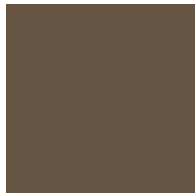
** Type TP & TV Coved and Toeless 4" lengths & 100' rolls available in 2.5", 4", 4.5", and 6" heights.



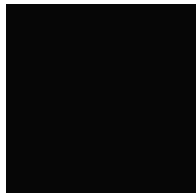
Thermoset Wall Base

Style: Type TS Wall Base

COLOR TO BE DECIDED
FOR RUBBER BASE



Beige
203



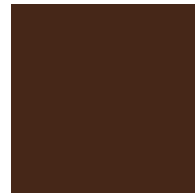
Black
701 Accord



BlackBrown
523 Accord



Bluebonnet
323



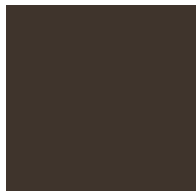
Brown
502 Accord



Carmine Gray
674 Accord



Charcoal
217 Accord



Chocolate
201



Clay
527 Accord



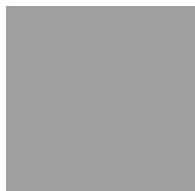
Espresso
103



Fudge
104



Ginger
503 Accord



Gray
204 Accord



Gray Beige
209 Accord



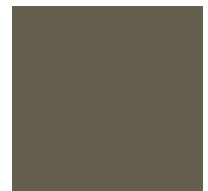
Gray Blue
672 Accord



Light Beige
206



Light Gray
208 Accord



Mocha
597 Accord

Construction Vulcanized Thermoset Rubber,
Type TS

Profile Heights 4", 6"

Total Thickness 1/8" (3.2 mm)

Profile Coved

Finish Satin

Sustainability FloorScore, mindful MATERIALS

Warranty Limited 5-Year Commercial

Thermoset Wall Base Continued

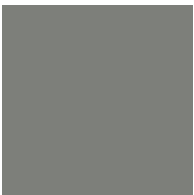
Style: Type TS Wall Base



Navy
875 Accord



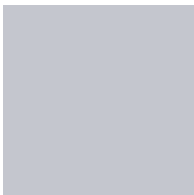
Off White
244 Accord



Ore
628



Rocky
660 Accord



Sky Gray
663 Accord



Thunder
727



Tweed
508

Wall Base & Chair Rail Molding Installation Guidelines

WALL BASE & CHAIR RAIL MOLDING - GENERAL INFORMATION

All recommendations are based on the most recent available information. The information on these sheets provides general guidelines. For complete details consult Mannington Commercial's General Installation Guide or visit our website at manningtoncommercial.com. All instructions and recommendations must be followed for a satisfactory installation. These instructions address the installation of BurkeBase Type TS, Type TP and Type TV wall base and Edge Effects wall base and chair rail molding.

Good preparation is essential for a trouble-free installation. It is important for the installer to verify the correct material, color and quantity before starting an installation, as well as verifying that the material is not damaged or defective. If a problem is encountered, a Mannington Commercial representative should be notified before the application continues.

WALL BASE - MATERIAL RECEIVING, HANDLING & STORAGE

- Material must be conditioned for at least 48 hours before beginning the installation. Acclimate wall base, adhesives and all accessories at 65°F - 85°F (18.3°C - 29.5°C) for 48 hours prior to, during and after installation.
- **BurkeBase wall base** that is rolled or coiled should be unrolled and allowed to lie flat for 24 hours before installation to regain normal shape.
- **Edge Effects wall base** should be unrolled for at least 48 hours at at least 70°F (21°C).
- **Note:** Wall base MUST NOT be stretched. Care must be taken NOT TO PULL the wall base excessively when unwinding from the coil, or at any time during or prior to installation.
- If storing for more than 2 days prior to installation, store all materials in a weather-tight enclosure. Do not stack pallets or boxes any higher than you received them.
- In rooms that are exposed to intense or direct sunlight, the materials should be protected during the conditioning, installation, and adhesive curing processes.
- Avoid excessive heat exposure until adhesive is thoroughly set.
- Report discrepancies immediately to Mannington Commercial at 800.241.2262 ext. 2 (Claims), as installation of products installed with visual defects, mixed production runs or incorrect styling will not be honored.

WALL BASE - PREPARATION

The flooring installation must be completed before installing wall base. The flooring must be installed close to the wall to provide even support to the base and insure a tight, smooth fit. The drywall or other wall substrate must extend down to within 3/4" of the floor.

Surface temperature should be between 65°F - 85°F (18.3°C - 29.5°C) for 48 hours prior to installation, during installation, and for 48 hours after installation.

Surface contaminants can cause bond failure and/or damage to the base. The wall surface must be structurally sound, clean, dry, smooth, and free of dirt, dust, wax, oil, grease, rust, paint, varnish, shellac, finishes, old adhesive or any other foreign substances that may interfere with proper bonding.

- Prepare the surface for smoothness by sanding, scraping, or other appropriate physical means (do not use adhesive removers or chemicals).
- Ensure that the wall/sheetrock is properly mounted and stable.

Installation Guidelines

- Repair and level any uneven spots, holes, gaps, joints, cracks, gouges etc., with a good-quality patching compound. Let the patching compound properly dry, and then sand area smooth.

Do not install wall base over non-porous surfaces such as vinyl wall coverings, laminated masonite, plastic laminates, some painted surfaces, and any other non-porous surface.

- If you have a non-porous surface, remove the non-porous covering to match the base height and expose a clean, dry, porous surface for the base to bond to.
- If you cannot remove the non-porous surface to the height of the base, do ONE of the following:
 - Conduct a bond test by installing 3 pieces of base with the Mannington Commercial MR-101 adhesive on the non-porous surface. Let them set for 24 hours, and then check the bond. If your bond is strong, proceed with the application. Mannington MR-101 can work in some non-porous applications, but not all. Testing is necessary.
 - or -
 - Use contact cement to bond the wall base to the non-porous surface. Follow contact adhesive manufacturer's precautions and directions.

Never install wall base on walls that will be exposed to moisture or drastic temperature changes..

WALL BASE - ADHESIVE

Mannington Commercial MR-101 adhesive is a solvent free, environmentally safe base adhesive. Use MR-101 on any clean, dry, porous surface. For non-porous surfaces, use contact cement. Follow contact adhesive manufacturer's precautions and directions.

WALL BASE - INSTALLATION

Note: Wall base MUST NOT be stretched. Care must be taken NOT TO PULL the wall base excessively when unwinding from the coil, or at any time during or prior to installation. Wall base WILL NOT SHRINK, but it will relax/return to its original length if stretched. To prevent stretching when installing wall base, work back towards the last piece installed, or back towards the starting point. If these instructions are not followed, it is possible that the base will be slightly stretched, causing gaps between pieces after it returns/relaxes to the original length.

1. On dry and porous surfaces, the base should be adhered to the wall with Mannington Commercial MR-101.
 - a. Use a 1/8" V- notched spreader to spread the adhesive on the back of the base to within 1/4" from the top. The adhesive should cover 90% of the back of the base. The adhesive can be spread on the wall if preferred.
 - b. If using a cartridge, bead the adhesive to approximately 1/4" from the top.
 - If you are using a multiple-hole nozzle on your cartridge, use a 2-hole nozzle for 2.5" wall base, a 3-hole for 4" and a 5-hole nozzle for 6". Regardless of which method used, ensure that 90% of the back of the base is covered with adhesive.
2. If the wall or floor is uneven, you might need to trim some wall base ends before adjoining pieces. Trim with a Standard or Sliding Compound Miter Saw, or a sharp razor-edged utility knife, cutting from the face to the back.
3. Apply wall base to the wall within 20 minutes after spreading adhesive.
 - a. Be sure to "work" the wall base back toward your starting point. This slightly compresses the pieces together and eliminates the possibility of gapping at the seams due to improper installation technique.
 - b. Always press firmly toward the last piece you installed using your hand and a clean rag or a clean hand roller
 - c. Base that is installed on a curved or irregular surface may need bracing until adhesive sets.

WALL BASE - BURKEBASE CORNERS

Install all corners first. Always maximize the length of the wall base measured from the edge of an outside corner or inside corner. Extend the job-formed corner's wall base length at least 6 inches on each side of the corner - more, if possible. The longer the length of wall base that extends from the corner, the better.

BurkeBase - Outside Corners

1. To form outside corners, fold the base at the proper point and scribe the backside with a V-knife or a wall base gouging tool. Remove no more than 20% of the base thickness.
2. For BurkeBase Type TP or BurkeBase Type TV wall base:
 - a. Heat the cut backside area with a hot air gun. Apply heat carefully, as excessive heat will deform or blister the base.
 - b. Crease the base at the fold with your hands or a hand roller. Let cool to the touch.
 - c. Apply adhesive and install. Press firmly to the wall and brace if needed.
 - d. Use a wet clean cloth to cool the base if hot from heating process.
3. For BurkeBase Type TS wall base, heating is not necessary:
 - a. Crease the base at the fold with your hands or a hand roller.
 - b. Apply adhesive and install. Press firmly to the wall and brace if needed.

BurkeBase - Inside Corners

1. To form inside corners, mark on the back of the base where the corner will be. Use a straight edge and a utility knife or wall base gouging tool to cut the back of base. Remove no more than 20% of full thickness.
2. If installing coved base, cut a small 90° triangular wedge from the toe at the corner point.
3. For BurkeBase Type TP or BurkeBase Type TV wall base:
 - a. Heat the back of the base at the corner point with a hot air gun. Apply heat carefully, as excessive heat will deform or blister the base.
 - b. Fold base, apply adhesive while still warm to the touch, and press the corner into place. Carefully push the toe of the base into the corner until your cut triangle closes. Press firmly to ensure good adhesive contact.
 - c. Hold a wet cloth to base to cool.
4. For BurkeBase Type TS wall base, heating is not necessary:
 - a. Fold base, apply adhesive, and press the corner into place. Carefully push the toe of the base into the corner until your cut triangle closes. Press firmly to ensure good adhesive contact.

WALL BASE - EDGE EFFECTS CORNERS

Miter cut pieces are available from Mannington Commercial for making outside corners. If using the pre-cut corners, install these first. Apply adhesive and position in place, taking care to ensure a tight and even fit.

Edge Effect wall base inside and outside corners can also be fabricated utilizing the same equipment and techniques required for traditional wood molding or baseboards. Start the job by determining the degrees of each outside and inside corner.

Edge Effects - Outside Corners

1. Position a sufficient length of wall base on the wall so that it tightly abuts the previously installed section, extending past the corner.
2. Using a pencil, mark the wall corner location along the top edge of the wall base.
3. Set the saw blade angle to the required miter angle for the corner using an angle finder.
4. Place the wall base section against the saw fence or miter guide. The wall base should be laying flat on the saw table with the finished surface facing upwards and perpendicular to the saw blade.
5. Cut the wall base to the proper miter angle.
 - a. Miter cut your pieces at 47 degrees, rather than 45. It allows for more forgiveness to make an aesthetically pleasing corner.
6. Repeat this procedure for the other side of the corner.
7. Place the two mitered sections of wall base on the outside corner and check for proper fit.
 - a. **Trim, if necessary, to obtain a tight fit at the corner.**
 - b. **To obtain a tighter and more secure fit between the two mitered sections of the corner, the two mitered areas should be glued together with a premium Contact Adhesive, applied to both mitered edges.**

Installation Guidelines

8. Apply the MR-101 adhesive to the back of one section of the wall base corner, position the section in place, and roll with a hand roller to ensure proper adhesion.
9. Apply adhesive to the back of the opposite side of the corner, position it in place, and roll to ensure proper adhesion.

Edge Effects - Inside Corners

For inside corners, a coping corner looks best. Cope the inside corner by cutting a reverse miter on the material. After that, cut along the edge of the finished face, and miter with a utility knife.

Mitered inside corners are hard to fit correctly due to the wall corners often being irregular in shape and contour; however, they can work if the building's corners are clean and true.

1. Set the saw blade angle to the required miter angle for the corner using an angle finder.
2. Place the wall base section against the saw fence or miter guide. The wall base should be laying flat on the saw table with the finished surface facing upwards and perpendicular to the saw blade.
3. Cut the wall base to the proper miter angle.
4. Repeat the above procedure for the other side of the corner.
5. Place the two mitered sections of wall base on the inside corner and check for proper fit.
 - a. **Trim, if necessary, to obtain a tight fit at the corner.**
 - b. **To obtain a tighter and more secure fit, the two mitered areas should be glued together with a premium Contact Adhesive, applied to both mitered edges.**
6. Apply the adhesive to the ribbed back of one section of the wall base corner, position the section in place, and roll with a hand roller to ensure proper adhesion to the wall surface.
7. Apply adhesive to the ribbed back of the opposite side of the corner and repeat. Attention should be given to ensure a tight and even fit to the corner.

WALL BASE - CLEAN UP

Note: If any excess adhesive comes up between the seams, over the top of the base, or oozes out of any place, clean it up WHILE WET, with a wet rag dampened with water. Once dry, adhesive is difficult to remove.

- Ensure that all areas are securely bonded.
- Make any needed repairs or adjustments.
- Maintain 65°F - 85°F (18.3°C - 29.5°C) for the next 48 hours.
- Clean up any excess adhesive as described above.
- Do not perform maintenance for 24 hours.

CHAIR RAIL MOLDING - MATERIAL RECEIVING, HANDLING & STORAGE

- Edge Effects Effectual chair rail molding and adhesive must be site conditioned at temperatures between 65°F - 85°F (18.3°C - 29.5°C) for 24 hours prior to, during and after the installation.
- During site conditioning period, roll out Edge Effects Effectual chair rail molding and allow it to relax.
- Cutting "rough-in" lengths for each section to be installed allows the product to relax and will be easier to install.
- In rooms that are exposed to intense or direct sunlight, the product must be protected during the conditioning period, installation, and for 24 hours after installation.
- Report discrepancies immediately to Mannington Commercial at 800.241.2262 ext. 2 (Claims), as installation of products installed with visual defects, mixed production runs or incorrect styling will not be honored.

CHAIR RAIL MOLDING - PREPARATION

Edge Effects Effectual chair rail moldings are for interior installations only.

Surface contaminants can cause bond failure and/or damage to the base. The wall surface must be structurally sound, clean, dry, smooth, and free of dust, drywall dust and loose particles.

Installation Guidelines

- All drywall-patching compounds and plaster should be sanded smooth and allowed to dry for a minimum of 3 days.
- The wall surface must be free of paint, alkali, wallpaper, wallpaper paste and any other foreign material, which could affect the adhesive bond.
- Ceramic tile surfaces are not recommended as suitable to for Edge Effects Effectual chair rail.

CHAIR RAIL MOLDING - INSTALLATION

Note: Do not install Edge Effects Effectual chair rail molding on a painted or wallpapered wall surface. Remove the paint or wallpaper from the desired area prior to installation.

1. Determine acceptable height of chair rail on the wall. Typically, the chair rail height is 1/3 of the way up the wall on an 8-foot wall. The middle of the chair rail is about 32" up from the floor. However, any agreed-upon height that the end user requires is suitable. There is no "hard and fast" rule.
2. Use a chalk line, snapped to the proper height, or mark the wall surface in several areas to establish the required installed position. Use a straight edge and level to provide a continuous line on the wall. The line should be level and parallel to the floor.
3. Cut the chair rail to length. Be sure to leave extra length for mitering or coping inside or outside corners.
4. Ideally, the first piece of chair rail molding that is to be installed should be a section that butts up against an inside corner, door or windowsill here a square (90°) angled cut is required.
5. For inside and outside corners, make 45° mitered end cuts. However, keep in mind that not all corners will be 90°. Use a "try square" to find out actual inside or outside angles, and then divide the number by 2 for making mitered cuts. For example, an 88° inside angle measurement would require the two adjoining lengths of chair rail molding ends to be cut at 44° each. For inside corners, the coping method is also acceptable.
6. Apply contact cement or super glue to all mitered inside and outside corner joints.
7. Use Mannington Commercial Double-Sided Adhesive Tape or commercially available Contact Bond Adhesive to secure the chair rail to the wall.
8. Apply tape to surface area or to the back of the molding.
9. When using contact adhesive apply to the wall and the molding. Allow contact adhesive to completely dry before placing chair rail.
10. Carefully position and install the molding. Use a J-roller and hand roll the molding to ensure proper adhesive bond. **NOTE:** Mannington Commercial Double-Sided Adhesive Tape or Contact Bond Adhesives adhere on contact. Repositioning of the molding is impossible once the adhesive makes contact to the adjoining surface.
11. If needed a brad gun or finishing nails can be utilized to help secure the chair rail to the wall. Conceal the finish fasteners at the shadow line (sculpture) of the chair rail. To disguise the nail holes, cover with the appropriate matching caulk as needed.

Wall Base & Chair Rail Molding Maintenance Guidelines

INTRODUCTION

Mannington Commercial wall base of any type and chair rail molding normally require little maintenance. Due to their refined and smooth surface, their natural luster minimal attention is required.

WALL BASE REGULAR CLEANING

For routine cleaning, wipe base with a damp cloth. This is generally sufficient to restore the wall base finish and appearance. A spray-on neutral cleaner, glass cleaner or countertop cleaner will normally do the job. Be careful not to overspray cleaner onto painted walls or wall covering.

WALL BASE SCUFF REMOVAL

Shoe sole marks, marks from cleaning equipment and other rolling stock can be unsightly and require removal. Most of these marks can be removed with a mildly abrasive cleaner such as Soft Scrub. Abrasive cleaners like Comet are not recommended.

WALL BASE FINISH OR WAX REMOVAL

Finishing or waxing of Mannington Commercial Wall Base is not recommended. It is not required and can be unsightly and objectionable. If any finish or wax should accidentally be splashed onto the wall base surface as finish is being applied to the adjacent flooring, it can be removed using a gentle hand application of a neutral pH wax remover. Care should be taken not to over-clean any spots on the wall base, to prevent surface color variation that may become more noticeable than any discoloration occurring from the waxed area.

CHAIR RAIL MOLDING MAINTENANCE

1. Do not perform any maintenance on the product for 24 hours after installation is completed.
2. Thoroughly wipe the entire surface area to remove all dust, dirt and grit.
3. Prepare a cleaning solution by mixing 1 oz. to 4 oz. of a neutral detergent (pH of 7-8) per gallon of warm water. The dilution selected depends on light to heavy soil conditions.
4. Scrub the chair rail molding surface with the solution using a clean cloth or sponge.

Note: For extremely heavy soil conditions, use Clorox's "Soft Scrub" or equivalent and scrub surface with a damp cloth or sponge.

Warranty Information

Wall Base & Chair Rail Molding Warranty

Features Warranted	<p>Limited 5 Year Commercial Wear Warranty</p> <p>The following warranty conditions apply to first quality for Mannington Commercial's BurkeBase® and Edge Effects® Wall Base, IdealBase™ Wall Base, and Chair Rail Molding when installed in commercial applications in accordance with Mannington Commercial's Installation Instructions.</p> <p>The Mannington Commercial Wall Base and Chair Rail Molding that you purchase is guaranteed to be free from manufacturing defects. If a defect is noted in your wall base or chair rail molding, upon verification of the defect, Mannington Commercial will authorize repair or replacement of the affected area. Reasonable labor costs, if installed by a professional flooring installer/contractor, will be reimbursed at 100% if the defect is reported within the first year of the original purchase, and at 50% if the defect is reported within the second year of the original purchase. Labor costs will not be reimbursed if the defect is reported within the third, fourth, or fifth year of the original purchase. Mannington Commercial's obligations under this warranty are subject to the exclusions stated below.</p>
Exceptions and Limitations	<ol style="list-style-type: none"> 1. Material degradation caused by cuts, tears, punctures, soiling, discoloration, staining, or other abuse. 2. Delamination issues related to improper substrate preparation, excessive moisture in the substrate and improper leveling or patching compounds. 3. Improper installation – problems caused by uses and installation contrary to Mannington Commercial recommendations. Mannington Commercial installation instructions are available from your dealer or by calling 1-800-241-2262. 4. Material degradation caused by petroleum-based chemicals such as kerosene, oil, grease, etc. or animal fats. 5. Purchase of "Seconds," "Remnants," "Mill Trials" or other "irregular" (non first quality) flooring material, or material not part of, or available in, the regular Mannington Commercial product line. 6. Any damage such as burns, stains, cuts, scratches, scuffs, gouges, indentations, including lack of or improper protectors and furniture rests; staining caused by tracked-in fertilizers, coal, tar, or asphalt driveway sealers or oil drippings; fading or discoloration from prolonged, excessive exposure to sunlight or heat; and damage caused by other abuse or accident. 7. Labor on material installed with obvious defects. 8. Mannington Commercial warranties do not cover labor costs on repair or replacement of material which was not originally professionally installed. 9. Loss of luster or film build-up due to lack of or improper maintenance. 10. Any discoloration or bond failure on Mannington Commercial product resulting from improper adhesive selection or application. 11. Problems due to moisture, mildew, alkaline substances, or hydrostatic pressure. 12. Color, shade, or embossing deviations from samples or printed color literature.

Warranty Information

**Exceptions and
Limitations
(continued)**

This warranty does not cover defects or damage to wall base or chair rail molding caused by (i) installation or maintenance that does not comply strictly with the guidelines set forth in Mannington Commercial's Installation Instructions and Maintenance Instructions, (ii) abuse (e.g. abrasives like steel wool to scour the floor, sliding heavy objects across the product without proper protection), or (iii) severe accidents (e.g. fire, burns).

This warranty covers water damage from normal use, excluding natural disasters. This warranty applies only to the original purchaser and installation site(s) and is not transferable. This warranty is valid for commercial installations. Any area that receives replacement wall base or chair rail molding must be cleared, at the consumer's expense, of any equipment, furnishings, partitions, etc., that have been installed or put into place over the wall base or chair rail molding subsequent to the original installation. This warranty does not cover wall base or chair rail molding installed with obvious visual defects.

Note: If there is a manufacturing defect, you must immediately provide written notice of such defect, together with proof of purchase to the flooring contractor from whom the wall base or chair rail molding was purchased. This notice must be received by the flooring contractor within the warranty period from the date of purchase. The flooring contractor will notify Mannington Commercial's Customer Care (888.673.2274) who will arrange inspection of the wall base or review the complaint with the dealer. Should this inspection or review indicate an obligation on the part of Mannington Commercial, such obligation will be satisfied through your flooring contractor. For more information, please call 800.241.2262 or write to Mannington Commercial, P. O. Box 12281 Calhoun, Georgia 30703.

THESE ARE YOUR EXCLUSIVE REMEDIES UNDER THE LIMITED WARRANTIES SET FORTH ABOVE. UNDER THE TERMS OF THESE LIMITED WARRANTIES, MANNINGTON COMMERCIAL WILL NOT BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY KIND, NO MATTER WHAT THE CAUSE. THERE ARE NO IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, EXTENDING BEYOND THE TERMS OF THESE LIMITED WARRANTIES. EXCEPT AS SET FORTH HEREIN, THERE ARE NOT EXPRESS WARRANTIES MADE BY MANNINGTON COMMERCIAL. Please note: some jurisdictions do not permit the exclusion or limitations on incidental and consequential damages or limitations on how long an implied warranty lasts, so these limitations may not apply.

This Warranty gives you specific legal rights, and you may also have other rights, which vary by state. The terms of, and remedies available under, this Warranty can only be modified or extended if expressly authorized, in writing, by an authorized representative of Mannington Commercial.

For more Information, please contact Mannington Commercial Technical Services at 800.241.2262 ext. 3 or visit manningtoncommercial.com.

Ultrabond ECO 575

Premium Wall-Base Adhesive



NORTH AMERICA [NA]

DESCRIPTION

Ultrabond ECO 575 [NA] is a premium wall-base adhesive specifically designed to provide superior bond and impact resistance for rubber, vinyl and carpet wall base. *Ultrabond ECO 575* [NA] also has been reformulated to offer even greater grab and wet strength, keeping corners wrapped tight. Its light-colored, water-based, acrylic-polymer formulation won't stain even the whitest wall base.

FEATURES AND BENEFITS

- Fast, early grab to hold base in place
- Light color that won't stain
- Impact-resistant bond

WHERE TO USE

- For the installation of wall base (vinyl, rubber and carpet) and also FRP panels (fiberglass reinforced plastic) and various types of wall carpet

LIMITATIONS

- Do not install over any substrates containing asbestos.
- For interior installations only
- Do not install over nonporous paints, wallpaper, vinyl wall coverings, laminates, ceramic tile, metal or similar nonporous materials.

SUITABLE SUBSTRATES

- Gypsum wallboard with paper intact
- Water-based paint residue over gypsum wallboard
- Gypsum and cement-based wall-patching compounds that are hard, durable, well-bonded and fully cured
- Exterior-grade plywood, Group 1, CC type
- Other approved wood underlayments (per the manufacturer's recommendations)
- Fully cured masonry and concrete walls

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- All substrates must be structurally sound, dry, solid and stable.
- Substrate should be clean and free of dust, dirt, oil, grease, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion. All surfaces must be level, even, flat and smooth.
- Masonry and concrete walls must be free of hydrostatic pressure and moisture issues. Use a quality hygrometer to check moisture/humidity levels.

See the "Surface preparation requirements" reference guide in the Floor Covering Installation Systems section of MAPEI's Website.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

- Ready to use; no mixing necessary

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

Trowel Application Method

1. Select the appropriate notched trowel (see the "Approximate Coverage" chart below).
2. Spread adhesive evenly over the wall surface, keeping the trowel at a 45-degree angle to the substrate. Or spread adhesive evenly over the back of the wall base, keeping the trowel at a 45-degree angle to the back of the base.
3. Install the wall base into the adhesive while it is still fresh.
4. For working time and flash time, refer to the "Application Properties" chart below.
5. Install cove base per the manufacturer's instructions.
6. Roll the entire surface with a small roller. Always roll towards the last piece of base installed.
7. Promptly clean any adhesive smudges from the flooring material's surface with water while the adhesive is still fresh/wet.
8. Clean tools with water while the adhesive is still fresh/wet.

- Clean with mineral spirits once the adhesive has dried. Use caution with mineral spirits, which may be harmful to some materials.

Cartridge Application Method

- Ultrabond ECO 575* [NA] can be applied to the back of the base or directly to the wall.
- Apply the adhesive evenly using a nozzle.
- Install the wall base into the adhesive while it is still fresh.
- For working time and flash time, refer to the “Application Properties” chart below.
- Install cove base per the manufacturer’s instructions.
- Roll the entire surface with a small roller. Always roll toward the last piece of base installed.
- Promptly clean any adhesive smudges from the flooring material’s surface with water while the adhesive is still fresh/wet.
- Clean tools with water while the adhesive is still fresh/wet.
- Clean with mineral spirits once the adhesive has dried. Use caution with mineral spirits, which may be harmful to some materials.

As an adhesive for FRP panels

- Select the appropriate notched trowel (see the “Approximate Coverage” chart below).
- Some product backings may require cleaning, sanding or “roughing up” to improve the mechanical bond. Perform a test bond before application.
- Measure and pre-fit FRP panels to the wall before applying adhesive.
- Ensure that wall surface is clean and free of dust and bond-breaking substances before applying adhesive.
- Uncoated gypsum wallboard and other porous surfaces should be primed with a skimcoat of adhesive.
- Spread adhesive evenly over the wall surface or back of the panel, keeping the trowel at a 45-degree angle to the substrate.
- Depending on temperature, humidity and surface porosity, wait 5 to 20 minutes before attaching the panel to the substrate.
- For working time and flash time, refer to the “Application Properties” chart below.
- Install FRP panels per manufacturer’s instructions.
- Roll the entire surface with a heavy-duty extension hand roller to expel air and ensure proper bond. Press firmly with the roller, working from the center to the outer edges.
- Temporary bracing may be necessary if wall panels are not straight.
- Promptly clean any adhesive smudges from the flooring material’s surface with water while the adhesive is still fresh/wet.
- Clean tools with water while the adhesive is still fresh/wet.
- Clean with mineral spirits once the adhesive has dried. Use caution with mineral spirits, which may be harmful to some materials.

Product Performance Properties

Laboratory Tests	Results
Polymer type	Acrylic-latex-based
Solids content	45% to 65%
VOCs (Section 01350 of California’s CDPH)	Passed
VOCs (Rule #1168 of California’s SCAQMD)	< 40 g per L
pH	8 to 10

Density	10.8 lbs. per U.S. gal. (± 0.8); 1.3 g per mL (± 0.1)
Flash point (Tag)	> 212°F (100°C)

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Shelf Life and Product Characteristics

before mixing

Shelf life	2 years when stored in original packaging at 73°F (23°C)
Storage conditions	40°F to 100°F (4°C to 38°C)
Color	Beige
Consistency	Buttery
Trowelability	Light, easy

Application Properties

over porous substrates

	Flash Time*	Working Time**
Wall base (rubber, vinyl and carpet)	0	10 to 25 minutes

* Flash time is the waiting time required before installing the flooring.

** Working time is the window of time for the adhesive to accept flooring.

Note: Flash time and working time may vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

Packaging

Size
11 U.S. oz. (325 mL)
28.7 U.S. oz. (849 mL)
1 U.S. gal. (3.79 L)
4 U.S. gals. (15.1 L)

Approximate Coverage***

Wall Base (Trowel Application)		
Wall Base Width	Typical Trowel	Coverage
2-1/2" (6.4 cm)	1/8" x 1/8" (3 x 3 mm), saw-tooth	310 to 340 linear ft. per U.S. gal. (25 to 28 linear m per L)
4" (10 cm)		220 to 240 linear ft. per U.S. gal. (18 to 19 linear m per L)
6" (15 cm)		165 to 180 linear ft. per U.S. gal. (13 to 15 linear m per L)

Wall Base (Cartridge Application)		
Wall Base Width	Cartridge Size	Coverage
4" (10 cm)	11 U.S. oz. (325 mL)	18 linear ft. (5.49 linear m) per cartridge
4" (10 cm)	28.7 U.S. oz. (849 mL)	50 linear ft. (15.2 linear m) per cartridge

FRP Panel (Trowel Application)	
Typical Trowel	Coverage
3/32" x 3/32" x 3/32" (2.5 x 2.5 x 2.5 mm), V-notch	50 to 70 sq. ft. per U.S. gal. (1.22 to 1.71 m ² per L)

***Trowel dimensions are depth/width/space. Coverages shown are for estimating purposes only. Actual jobsite coverages may vary according to substrate conditions, type of trowel used and setting practices.

RELATED DOCUMENTS

- Reference guide: "Surface preparation requirements" for floor-covering installation systems[†]

[†]At www.mapei.com

ADDITIONAL INFORMATION

Refer to the SDS for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

CONTACT INFORMATION

MAPEI Headquarters of North America

1144 East Newport Center Drive
Deerfield Beach, Florida 33442
1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

Technical Services

U.S. and Puerto Rico:

Flooring: 1-800-992-6273

Concrete and heavy construction: 1-888-365-0614

Canada:

1-800-361-9309

Customer Service

1-800-42-MAPEI (1-800-426-2734)

Edition Date: June 8, 2023 MK 3000285 (22-3361)

For the most current product data and BEST-BACKEDSM warranty information,
visit www.mapei.com.

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Safety Data Sheet

ULTRABOND ECO 575

Safety Data Sheet dated: 01/10/2022 - version 10

Date of first edition: 05/13/2015



1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: ULTRABOND ECO 575

Trade code: 9019415

Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

Responsible: RDProductSafety@mapei.com

Emergency 24 hour numbers:

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

No specific hazards are encountered under normal product use.

Label elements

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves and eye protection.

P501 Dispose of contents/container in accordance with applicable regulations.

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification	Registration Number
0.25-0.49 %	silica sand; quartz	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372; Carc. 1A, H350	

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

N.A.

Indication of any immediate medical attention and special treatment needed

Treatment: N.A.

(see paragraph 4.1)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Notes
silica sand; quartz	ACGIH			0.025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;
	ACGIH			0.025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
	MAK	AUSTRIA		0.15					
	MAK	SWITZERLAND		0.15					

Appropriate engineering controls: N.A.

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

N.A.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: paste white

Odour: light latex like

Odour threshold: No data available

pH: 8.35

Melting point / freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: 100 °C (212 °F)

Evaporation rate: No data available

Upper/lower flammability or explosive limits: No data available

Vapour density: No data available

Vapour pressure: No data available

Relative density: 1.30 g/cm³

Solubility in water: dispersible

Solubility in oil: No data available

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: 800.00 PA-s

Explosive properties: No data available

Oxidizing properties: No data available

Solid/gas flammability: No data available

Other information

Substance Groups relevant properties No data available

Miscibility: No data available

Fat Solubility: No data available

Conductivity: No data available

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

silica sand; quartz a) acute toxicity LD50 Oral Rat = 500 mg/kg

Substance(s) listed on the IARC Monographs:

silica sand; quartz Group 1

Substance(s) listed as OSHA Carcinogen(s):

silica sand; quartz

Substance(s) listed as NIOSH Carcinogen(s):

silica sand; quartz

Substance(s) listed on the NTP report on Carcinogens:

silica sand; quartz

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
silica sand; quartz	CAS: 14808-60-7 - EINECS: 238-878-4	a) Aquatic acute toxicity : LC50 carp > 10000.00000 mg/L 72h

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

UN number

ADR-UN number: N.A.

DOT-UN Number: N.A.

IATA-Un number: N.A.

IMDG-Un number: N.A.

UN proper shipping name

ADR-Shipping Name: N.A.

DOT-Proper Shipping Name: N.A.

IATA-Technical name: N.A.

IMDG-Technical name: N.A.

Transport hazard class(es)

ADR-Class: N.A.

DOT-Hazard Class: N.A.

IATA-Class: N.A.

IMDG-Class: N.A.

Packing group

ADR-Packing Group: N.A.

DOT-Packing group: N.A.

IATA-Packing group: N.A.

IMDG-Packing group: N.A.

Environmental hazards

Marine pollutant: No

Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

Special precautions

Department of Transportation (DOT):

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

silica sand; quartz is listed in TSCA Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

No substances listed

Section 313 - Toxic chemical list:

No substances listed

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

No substances listed

CAA - Clean Air Act

CAA listed substances:

No substances listed

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

silica sand; quartz Listed as carcinogen

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

silica sand; quartz

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

silica sand; quartz

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

silica sand; quartz

Canada - Federal regulations

DSL - Domestic Substances List

DSL (Domestic Substances List)

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

NDSL (Non Domestic Substances List)

No substances listed

NPRI - National Pollutant Release Inventory

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

16. OTHER INFORMATION

Safety Data Sheet dated: 1/10/2022 - version 10

Additional classification information

NFPA Health: 1 = Slight

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: N.A.



Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Code	Description
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION



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Suitable Substrates

- Concrete (structurally sound)
- Absorbent terrazzo on concrete†
- Metal (Interior only and non-aluminum) †, †††
- Plywood subfloors (untreated)
- Solid hardwood †, †††
- Gypsum ††
- Properly installed ARDEX moisture control systems on concrete:
 - ARDEX MC™ RAPID
 - ARDEX VB 100
 - ARDEX VR 98
- Other approved, non-porous materials on concrete:†
 - Non-porous (non-absorbent) cementitious terrazzo
 - Ceramic, quarry or porcelain tiles
 - Epoxy Coatings
 - Epoxy terrazzo
 - Non-Water-Soluble Adhesive Residue on Concrete
 - Concrete treated with certain curing compounds (test area only; for full instructions, see ardexamericas.com/services/properprep)

†Must be sound, solid and well-bonded to underlying, structurally sound substrates.

Please note that a skim coat of a cementitious material applied over a non-porous surface may not create a porous bonding surface for the finish flooring and/or may not protect the finish flooring from migration of existing adhesive. Consult the flooring manufacturer for confirmation of any minimum thickness requirements for cementitious underlayments, as well as for any additional considerations, when installing over potentially non-porous surfaces.

††Please be advised that gypsum is inherently weak. This product will provide a solid bonding surface for new flooring, but it cannot correct the weakness of an underlying gypsum surface.

†††It is the responsibility of the installation contractor to ensure the substrate is rigid, well supported, properly anchored and free of undue flex and vibration.

Suitable Applications

- Areas to receive a suitable floor covering material, such as carpet, vinyl, ceramic, etc. Do not use as a wear surface. If a permanent wear surface is needed, use ARDEX SD-M
- All grade levels
- Dry areas only
- Interior applications only
- May be used as an embossing filler over residential sheet vinyl (no cushioned-backed flooring thicker than 0.080" or perimeter-bonded flooring) when mixed with ARDEX P 82; see instructions below. Note: When dried, the surface of the filled vinyl is considered a non-porous substrate, and the adhesive should be selected accordingly.

Job Conditions

During installation and cure, substrate and ambient temperatures must be a minimum of 50° F / 10° C.

Step 1: Moisture Evaluation and Testing

This product is intended for interior, dry spaces. Hydrostatic pressure, plumbing leaks, flood factors and other sources of water infiltration must be identified and corrected prior to installation. This product is not a vapor barrier and will allow free passage of moisture vapor.

Test concrete in accordance with ASTM F2170. For high-moisture floor coverings and adhesives, this product can be installed over concrete with relative humidity (RH) levels up to 99% provided: Each on-ground slab is built on a vapor retarder, which remains effective and intact, in conformance with ASTM E1745.

All other cases: Moisture control is required if the RH exceeds the most stringent of the following: 1) the limitations imposed by the flooring manufacturer; 2) the limitations imposed by the adhesive manufacturer.

Priming course if moisture control is required: ARDEX MC RAPID, ARDEX VR 98 or ARDEX VB 100. If moisture control is not required, See section entitled "Priming Method Selection" Below.

Moisture Control System Selection

ARDEX MC RAPID or ARDEX VB 100: RH levels up to 100% on all grade levels.

ARDEX VR 98:

RH levels are 98% or below (85% for radiant-heated slabs)

The slab is either above-grade, or, the slab is built on a vapor retarder, which remains effective and intact, in conformance with ASTM E1745

If moisture control is not required, select applications require priming

Priming Method Selection (select applications)

If a moisture control course will not be applied, priming is needed only for select applications as follows:

- ARDEX P 82™ Ultra Prime
- ARDEX P 4™ Pre-Mixed, Rapid-Drying, Multipurpose Primer
- ARDEX P 51™ Primer

Substrate (Dry areas only Interior applications only; All grade levels	Priming Course
Gypsum; Extremely absorbent concrete	ARDEX P 51 Double prime or ARDEX P 4
Metal (Interior only and non- aluminum)	ARDEX P 82; anti-corrosive epoxy coating required for ferrous metals
Epoxy Coatings	ARDEX P 82 or ARDEX P 4

Step 2: Substrate Preparation (Proper Prep™)

For full details on Proper Prep, reference the following articles at ardexamericas.com/services/properprep:

- Article 1.1: Preparing Concrete for ARDEX or HENRY Underlayments
- [Article 1: Preparing Concrete for Bonded ARDEX or HENRY Applications](#)
- Article 2: Preparing Wood for Bonded ARDEX Applications
- Article 3: Preparing Metal for Bonded ARDEX Applications
- [Proper Prep Brochure](#)

If necessary, mechanically clean the substrate by shot blasting or similar means. Do not use acid etching, adhesive removers, solvents or sweeping compounds, as these are bond breakers. Sanding is not an effective method to remove contaminants from concrete.

Substrate must be dry and alkali free. All substrates must be sound, solid and thoroughly clean of all bond-breaking contaminants, including but not limited to: overwatered or otherwise loose or weak material; dirt, dust, wax, grease, paints and oils; unapproved curing compounds and sealers; unsuitable adhesive residues.

Minimum Preparation

Substrate must be clean; additional prep may be needed, as follows:

Substrate	Minimum Preparation
Non-Water-Soluble Adhesive Residue on Concrete	Non-water-soluble adhesive residue must be wet scraped to thin, well-bonded residue (rfci.com).
Substrate to receive ARDEX VR 98 / ARDEX VB 100 / ARDEX P 51	Mechanically remove all adhesive residue, sealers, curing compounds, tiles, mortars and epoxy coatings down to clean, sound, solid concrete / terrazzo Substrate must be clean and absorbent
Concrete to receive ARDEX MC RAPID	Mechanically remove all adhesive residue, sealers, curing compounds, tiles, mortars and epoxy coatings down to clean, sound, solid concrete / terrazzo Concrete and terrazzo substrates must be clean and prepared to a minimum CSP 3 / maximum CSP 5 (icri.org)

Following preparation, thoroughly vacuum to remove all excess dirt and debris.

Handle and dispose of asbestos and other hazardous materials in accordance with prevailing regulations, which supersede the recommendations in this document.

Step 3: Treating Joints and Cracks

All moving joints, including expansion joints and isolation joints, as well as all moving cracks, must be honored up through the entire flooring system, including the finishing course. Under no circumstances should this product, the moisture control system, the selected primer or any other component of the flooring system be installed over these.

Dormant control joints and Dormant cracks may be pre-filled; however, this filling is not intended to act as a repair method that will eliminate the possibility of telegraphing. Non-structural materials are unable to restrain movement within a concrete slab. Cracks will telegraph in any area that exhibits movement, such as an active crack, an expansion or isolation joint, or an area where dissimilar substrates meet. We know of no method to prevent this telegraphing.

If an ARDEX moisture control system will be installed (see "Moisture Testing" section above): All dormant joints and dormant cracks greater than a hairline (1/32" / 0.8 mm) that will not be honored must be pre-filled with ARDEX ARDIFIX™ Low Viscosity Rigid Polyurethane Crack and Joint Repair and sand broadcasted to refusal in strict accordance with the technical data sheet.

Step 4: Install Appropriate Moisture Control or Priming Course if / as needed

Products may need longer drying times with low surface temperatures and/or high ambient humidity. Do not proceed with subsequent steps before product has dried thoroughly.

ARDEX MC RAPID / ARDEX VB 100 / ARDEX VR 98 Installation (*Priming course if moisture control is required*)

If moisture control is required, install the ARDEX moisture control system in accordance with the appropriate technical data sheet (www.ardexamericas.com/products). See section entitled "Moisture Evaluation and Testing" above.

Priming Course (*If moisture control is not required*)

If moisture control is not required, select applications require priming (See section entitled "Priming Method Selection" above).

Gypsum / Extremely absorbent concrete: ARDEX P 51 "Double prime"

Make an initial application of primer diluted with 3 parts water by volume. Let the initial application dry thoroughly (1 - 3 hours), and then install a second application of primer mixed 1:1 with water as detailed directly above.

Metal (Interior only and non-aluminum) / Epoxy Coatings: ARDEX P 82

To prevent rust from recurring, ferrous metals must first be coated with an anti-corrosive epoxy coating. The coating must be installed and allowed to dry thoroughly in accordance with the manufacturer's written recommendations.

Follow the mixing instructions on the container, and apply with a short-nap or sponge paint roller, leaving a thin coat of primer. Do not leave any bare spots. Back roll with a dry roller to remove excess primer. ARDEX P 82 should be applied within 1 hour of mixing. Allow to dry to a thin, slightly tacky film (min. 3 hours, max. 24 hours).

Metal (Interior only and non-aluminum): ARDEX EP 2000

ARDEX EP 2000 can also be used as a priming option over interior metal substrates. Please contact the ARDEX Technical Service Department for a full recommendation.

Epoxy Coatings: ARDEX P 4

Apply a thin, even layer to the substrate using a short-nap roller, sponge paint roller or paintbrush. Allow the primer to dry to a thin, opaque, white film (min. 30 minutes; 70°F / 21°C). Once dry, there is no time limit before the subsequent installation may proceed. However, please note that the subsequent installation should proceed as soon as possible to avoid surface contamination or damage to the primed surface.

Step 5: Mixing and Application

Recommended Tools

Mixing Paddle; Mixing Container; 1/2" (12 mm) heavy-duty drill (min. 650 rpm); appropriate measuring bucket; Steel trowel; margin trowel; steel trowel; razor scraper

Application Data

Water Ratio:	2 1/2 quarts (2.4 L) clean water Per bag 2 parts powder: 1 part clean water by volume (small batches)
Approximate Pot life:	15 - 20 minutes (70°F / 21°C)
Thickness of Application:	Small, well-defined areas (Standard absorbent (porous) Substrates Only): Unlimited All other cases: 1/2" (12 mm)

Manual

Pour the water in the mixing container first, and then add powder while mixing with the mixing paddle and a 1/2" (12 mm) heavy-duty drill (min. 650 rpm). Mix thoroughly for approximately 2 to 3 minutes to obtain a lump-free mix. Do not overwater! Additional water will weaken the compound and lower its strength.

Small batches may be mixed by hand. Use a margin trowel, and mix vigorously. Just prior to application on the substrate, the mixture should be stirred again to ensure a creamy, smooth, lump-free consistency.

As this product is installed in thin applications, the profile of the substrate can affect the flatness and smoothness of the product. The thickness of the application should be calculated based on the surface profile of the substrate and the specified tolerances of the subsequently installed finish surface.

After mixing, apply the product to the substrate with the flat side of a steel trowel to obtain a solid mechanical bond before applying the desired thickness. Apply sufficient pressure to fill all defects.

Over ARDEX VR 98 and ARDEX VB 100, special application procedures are required. Please refer to the appropriate technical data sheet or consult the ARDEX Technical Service Department for a full recommendation.

Jobsite conditions and temperature may affect pot life. If the material begins to harden within published pot life, retemper with a drill. **Do not add more water.**

Embossing Filler

Existing felt-backed embossed residential sheet vinyl must be clean and free of any waxes or other dressings, solidly bonded and installed over a suitable substrate. The sheet vinyl must not show any signs of moisture, mold, mildew or alkaline salts.

Mix one part of ARDEX P 82 Part A with one part of ARDEX P 82 Part B by volume and blend to a uniform consistency. Add two parts powder by volume and mix as above.

Apply with the flat side of a trowel in the thinnest possible layer to fill in the existing pattern. If additional filling or smoothing is required after the pattern is filled, mix and install an additional coat as detailed in the "Manual" section above.

The embossing filler blend will typically require 90 minutes of drying time prior to the installation of the new residential sheet vinyl. The surface is ready when a twist of a shoe does not affect the bond of the embossing filler.

Step 6: Drying Time and Installation of Flooring

All dry times are calculated at 70°F (21°C). Drying time is a function of jobsite temperature and humidity conditions. Low substrate temperatures and/or high ambient humidity will extend the drying time. Adequate ventilation and heat will aid drying. Forced drying can dry the surface of the product prematurely and is not recommended.

Wood flooring and high-performance adhesives (epoxies or urethanes)	16 hours
All other cases	When hardened (Typically 15 - 20 minutes)

Notes

Intended for use by professional contractors who are trained in the application of this product and/or similar products. Not sold by ARDEX through home improvement centers. For information on ARDEX Academy trainings, visit: www.ardexamericas.com.

Never mix with cement or additives outside of our written recommendations. In accordance with industry standards, and to determine the suitability of the products for the intended use, always install an adequate number of properly located test areas including the finish flooring. As floor coverings vary, always contact and rely upon the floor covering manufacturer for specific directives, such as maximum allowable moisture content, adhesive selection and intended end use of the product. If the installation is not proceeding as expected, contact the ARDEX Technical Service Department before proceeding further.

Observe the basic rules of concrete work, including the minimum surface and air temperatures detailed above. Install quickly if the substrate is warm, and follow the warm weather installation guidelines available on our website.

Dispose of packaging and residue in accordance with prevailing regulations. Do not flush material down drains. Do not reuse packaging.

Precautions

Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Safety Data Sheet (SDS) available at: www.ardexamericas.com.

Technical Data According to Manufacturer Quality Standards

Physical properties are typical values and not specifications. All data based on partial, in-lab mix. Mixing and Testing completed at 70°F / 21°C.

Coverage:	Per bag At 1/4" (6 mm): 16.7 sq. ft. (1.5 m ²) Per bag At 1/8" (3 mm): 33.3 sq. ft. (3.09 m ²) Per bag At Skim Coat: 100 - 300 sq. ft. (9.2-27.8 m ²) Embossing Filler: Approximate 50 sq. ft. Dependent on surface profile, density and porosity.
Drying Time:	See section entitled "Drying Time and Installation of Flooring" above.
Packaging:	10 lb. (4.5 kg) bag
Storage:	Store in a cool, dry area. Do not leave units exposed to sun.
Shelf Life:	9 months, if unopened and properly stored
Warranty:	ARDEX L.P. Standard Limited Warranty applies (10-Year). Also eligible for ARDEX SystemOne™ Warranty When used as a system. For full warranty details: ardexamericas.com/services/warranties .

Made in the USA.

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www.ardexamericas.com.

Visit www.youtube.com/ARDEX101 to watch ARDEX product demonstration videos. For recommended installation tools, visit DTA USA at www.dtausagroup.com. For easy-to-use ARDEX Product Calculators and Product Information On the Go, download the ARDEX App.



ARDEX Americas
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www.ardexamericas.com

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **ARDEX FEATHER FINISH®**
Product ID No. : 70012141
Trade Name/Synonyms : SD-F
Material Use : Cement-based Finishing Underlayment
Uses Advised Against : Use only as recommended in the product's Technical Data Sheet.
Manufacturer's name and address:



ARDEX L.P.
400 Ardex Park Dr.
Aliquippa, PA 15001 USA

Information Telephone No. : (888) 512-7339 or (724) 203-5000
Website Address : <http://www.ardexamericas.com>
24 Hr Emergency Telephone # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification according to 29 CFR 1910.1200 (OSHA HCS 2012) / HPR (WHMIS 2015)
Skin Irritation 2
Eye Dam. 1
Carc. 1
STOT RE 1

GHS Pictograms



Signal Word

Danger

Hazard Statements

Causes skin irritation.
Causes serious eye damage.
May cause cancer by inhalation.
Causes damage to lungs through prolonged or repeated inhalation.

Precautionary Statements

Obtain special instructions before use. (See Section 7.) Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection. Wash contaminated clothing before reuse. Protect from sunlight. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow product to enter drains.

Hazards Not Otherwise Classified

None

% With Unknown Acute Toxicity : Up to 40% by weight of this product consists of ingredients with unknown acute toxicity.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (by weight)
Calcium aluminate cement	65997-16-2	30 – 60
Limestone	1317-65-3	10 – 30
Calcium sulfate	7778-18-9	10 – 30
Vinyl acetate copolymer	24937-78-8	5 – 10
Portland cement	65997-15-1	1 – 5
Crystalline silica, quartz**	14808-60-7	0.1 – 0.25

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

**Note: Crystalline Silica (Quartz) is not intentionally added to this product but is a naturally occurring component in Limestone (Calcium Carbonate). Exposure monitoring tests using typical occupational procedures found no measurable respirable crystalline silica in the breathing space of a worker mixing this product during an 8-hour work shift.

SECTION 4 – FIRST AID MEASURES

General	: Get medical attention if you feel unwell.
Inhalation	: Not expected to cause symptoms.
Skin contact	: Remove contaminated clothing. Flush affected skin with water. If irritation persists: seek medical attention/advice.
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
Ingestion	: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.
Notes for Physician	: Treat symptomatically.

Signs and symptoms of short-term (acute) exposure

<i>Inhalation</i>	: Symptoms may include coughing and irritation.
<i>Skin</i>	: Symptoms may include redness and itching.
<i>Eyes</i>	: Direct contact may strongly irritate or burn the eyes. Could cause blindness.
<i>Ingestion</i>	: Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur.

Indication of need for immediate medical attention or special treatment

- : In case of accident or ailment, seek medical advice immediately (show label or SDS if possible).

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media	: Carbon dioxide, dry chemical powder, foam.
Unsuitable extinguishing media	: If possible, avoid Water. Contact with water may cause hydration and formation of caustic alkaline material.
Hazardous combustion products	: Calcium oxide, calcium oxalate, vinyl acetate, acetic acid, formic acid, formaldehyde, carbon monoxide, and carbon dioxide.
Special fire-fighting procedures/equipment	: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.
Environmental precautions	: Do not allow material to enter drains or contaminate ground water system.
Fire hazards/conditions of flammability	: Not flammable under normal conditions of use.
Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)	: Not flammable.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Restrict access to area until completion of clean-up.
- Protective equipment** : Refer to Section 8 for additional information on acceptable personal protective equipment.
- Emergency Procedures** : This product does not contain any chemicals that must be reported to the EPA in the event of a spill or release. For advice on chemical spills with this product, call the emergency number listed in Section 1.
US CERCLA Reportable quantity (RQ): None reported.
- Methods and materials for containment and cleaning up** : Ventilate area of release. Stop spill or leak at source if safely possible. Contain material, preventing it from entering sewer lines or waterways. Using HEPA vacuum, or other dustless methods, gather up spilled material and place in suitable container for later disposal (see Section 13).
- Prohibited materials** : Avoid adding water, material becomes alkaline when wet.
- Environmental precautions** : Do not allow product to enter drains or waterways. Do not allow material to contaminate ground water system.
- Reference to other sections** : See Section 13 for disposal information.

SECTION 7 – HANDLING AND STORAGE

- Special instructions** : Mixing the product according to the directions in the Technical Data Sheet will not produce measurable levels of airborne respirable crystalline silica, per NIOSH 7500 exposure monitoring.
- Safe handling procedures** : See Section 8 for additional information on Permissible Exposure Levels for individual components and recommendations for Personal Protection Equipment (PPE). Do not breathe dust. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
- Storage requirements** : Store in a cool, dry area. Store away from heat and open flame. Avoid storing in direct sunlight. Store in original container.
- Incompatible materials** : See Section 10.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Permissible Exposure Limits** : No exposure limits have been established for the product itself. Below are exposure limits for the components in the product.

Threshold Limit Values for the Ingredients	CAS #	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
Calcium aluminate cement	65997-16-2	1 mg/m ³ (as Aluminum metal and insoluble compounds)	N/Av	N/Av	N/Av
Limestone	1317-65-3	N/Av	N/Av	15 mg/m ³ (total dust); 5 mg/m ³ (respirable)	N/Av
Calcium sulfate	7778-18-9	10 mg/m ³ (inhalable)	N/Av	15 mg/m ³ (total dust); 5 mg/m ³ (respirable)	N/Av
Vinyl acetate copolymer	24937-78-8	10 mg/m ³ (total dust); 3 mg/m ³ (respirable)	N/Av	15 mg/m ³ (total dust); 5 mg/m ³ (respirable)	N/Av
Portland cement	65997-15-1	1 mg/m ³ (respirable)	N/Av	15 mg/m ³ (total dust);	N/Av

		no asbestos and < 1% crystalline silica)		5 mg/m ³ (respirable)	
Crystalline silica, quartz	14808-60-7	0.025 mg/m ³ (respirable fraction)	N/Av	0.05 mg/m ³ (respirable) (final rule limit)	N/Av

- Engineering Controls** : Exposure monitoring during typical working conditions, measured exposures below OSHA PELs, without using general ventilation or local exhaust ventilation.
- Personal Protection Equipment**
- Eye / face protection** : Safety glasses or goggles must be worn when using this product.
- Skin protection** : Use protective clothing that provide comprehensive protection (e.g. rubber, nitrile). For hands, use protective gloves that provides comprehensive protection (e.g. rubber, nitrile).
- Respiratory protection** : Under normal working conditions, exposures to crystalline silica from this product will be below the OSHA Action Level (0.025 mg/m³ TWA). Furthermore, total respirable particulates were also below OSHA's PEL for normal working conditions, based on NIOSH 7500 exposure monitoring.
- Site safety equipment** : An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Avoid contact with eyes, skin and clothing. Do not breathe dust. Do not eat, drink or smoke when using this product. Clean all equipment and clothing at end of each work shift.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|---|-----------------|---|-----------------|
| Physical state | : solid | Appearance | : gray powder |
| Odor | : No odor | Odor threshold | : N/Av |
| pH | : 10 – 11 | Specific gravity | : 2.7 – 3.1 |
| Boiling point | : N/Av | Coefficient of water/oil distribution | : N/Av |
| Melting/Freezing point | : N/Av | Solubility in water | : < 55 g/L |
| Vapor pressure (mm Hg @ 20°C / 68°F) | : N/Av | Evaporation rate (n-Butyl acetate = 1) | : N/Av |
| Vapor density (Air = 1) | : N/Av | Volatiles (% by weight) | : N/Av |
| Volatile organic compounds (VOCs) | : 0 g/L | | |
| Particle size | : N/Av | Flammability classification | : Not flammable |
| Flash point | : N/Av | Lower flammable limit (% by vol) | : Not available |
| Flash point method | : N/Av | Upper flammable limit (% by vol) | : Not available |
| Auto-ignition temperature | : N/Av | Decomposition temperature | : Not available |
| Viscosity | : Not available | Oxidizing properties | : Not available |

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

SECTION 10 – REACTIVITY AND STABILITY INFORMATION

- Reactivity** : Contact with water may cause hydration and formation of caustic calcium hydroxide.
- Stability** : Stable under the recommended storage and handling conditions prescribed.
- Hazardous reactions** : Hazardous polymerization does not occur.
- Conditions to avoid** : Excessive heat.
- Materials to avoid and incompatibility** : Oxidizing agents.
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of exposure : Inhalation: YES Skin Absorption: NO Skin and Eyes: YES Ingestion: YES

Symptoms of exposure : See Section 4.

Calculated Acute Toxicity Estimates for the Product

Inhalation : Not Available

Oral : Not Available

Dermal : Not Available

Toxicological data : There are insufficient data for estimating the product's acute toxicity See below for individual ingredient acute toxicity data.

Acute Toxicity Parameters for the Ingredients	CAS #	LC50, Inhalation mg/L, Rat, 4 hr	LD50, Oral mg/kg, rat	LD50, Dermal mg/kg, rabbit
Calcium aluminate cement	65997-16-2	N/Av	N/Av	N/Av
Limestone	1317-65-3	N/Av	6450	N/Av
Calcium sulfate	7778-18-9	N/Av	> 3,000	N/Av
Vinyl acetate copolymer	24937-78-8	N/Av	> 1,000	N/Av
Portland cement	65997-15-1	N/Av	N/Av	N/Av
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	N/Av

Skin corrosion or irritation : Causes skin irritation. Prolonged exposure to wet product may cause skin burns.

Serious eye damage / eye irritation : Causes eye burns. May cause blindness.

Respiratory or skin sensitization : Portland cement may cause an allergic skin reaction in hypersensitive individuals, possibly due to trace amounts of chromium.

Germ cell mutagenicity : None known.

Carcinogenic status : This product contains trace amounts of Crystalline silica. Crystalline silica (respirable size) is classified as carcinogenic by inhalation by IARC (Group 1), ACGIH (Group A2), NTP (Group 1) and OSHA (OSHA Select carcinogen). No other components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive toxicity : None known.

Specific Target Organ Toxicity, Single Exposure

: May cause respiratory irritation.

Specific Target Organ Toxicity, Repeated Exposure

: May cause lung damage (silicosis) upon repeated or prolonged exposure. Silicosis may be accompanied by complications such as kidney damage and autoimmune disorders.

Aspiration hazard : None known.

Additional information : N/Av

SECTION 12 – ECOLOGICAL INFORMATION

Environmental effects : The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

Ecotoxicological : No data is available on the product itself.

Ecotoxicity : No data available.

Biodegradability : No data available.

Bioaccumulative potential : No data available.

Mobility in soil : No data available.

PBT and vPvB assessment : No data available.

Other adverse effects : No data available.

SECTION 13 – DISPOSAL CONSIDERATION

Handling for disposal : Handle waste according to recommendations in Section 7.

- Methods of disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- Packaging** : Handle contaminated packaging in the same manner as the product.
- RCRA** : For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 – TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	This product is not regulated according to Canadian TDG regulations.	None	None	None
TDG Additional Information	None				
49 CFR/DOT	None	This product is not regulated according to US DOT regulations.	None	None	None
49 CFR/DOT Additional Information	None				

Not regulated by IMDG.

Not regulated by IATA.

Not a Marine Pollutant.

SECTION 15 – REGULATORY INFORMATION

Canadian Information:

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 1

Carcinogenicity, Category 1

Specific target organ toxicity, repeated exposure, Category 1.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The threshold for this product 10,000 pounds.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above *de minimus* concentrations.

U.S. State Right to Know Laws

California Proposition 65: See product label for information regarding Proposition 65.

Other State Right to Know Laws:

Ingredient on State RTK Law?	CAS #	CA	MA	MN	NJ	NY	PA	RI
Limestone	1317-65-3	No	Yes	No	Yes	No	Yes	Yes
Calcium sulfate	7778-18-9	No	Yes	No	Yes	No	Yes	No
Portland cement	65997-15-1	No	Yes	No	Yes	No	Yes	Yes
Crystalline silica, quartz	14808-60-7	No	Yes	Yes	Yes	No	Yes	Yes

SECTION 16 – OTHER INFORMATION

HMIS Rating : * - Chronic Hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
*Health: *3 Flammability 0 Physical Hazard 1 PPE: B*
Gloves, safety glasses

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substances List
EPA: Environmental Protection Agency
GHS: Globally Harmonized System
HPR: Hazardous Products Regulations
IARC: International Agency for Research on Cancer
Inh: Inhalation
N/Av: Not Available
N/Ap: Not Applicable
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure Limit
RCRA: Resource Conservation and Recovery Act
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

Disclaimer of Liability

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Revision date: : 13-Dec-2020

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