

HydraFlex[™] Waterproofing Crack Isolation Membrane

Updated November 2023

1. PRODUCT NAME

TEC[®] HydraFlex[™] Waterproofing Crack Isolation Membrane (316)

2. MANUFACTURER

H.B. Fuller Construction Products Inc. 1105 South Frontenac Street Aurora, IL 60504-6451 U.S.A. 800.552.6225 Office 800.832.9023 Technical Support 800.952.2368 Fax tecspecialty.com

3. DESCRIPTION

Ready-to-use, flexible, mold and mildew resistant waterproofing crack isolation membrane for interior and exterior applications. Forms a smooth, monolithic, watertight surface over walls, floors and ceilings. HydraFlex Membrane stops in-plane cracks up to $1/_8$ " (3 mm) or up to $1/_4$ " (6 mm)* wide at the subfloor from telegraphing through to ceramic and stone tile. For residential to extra heavy commercial applications.

Key Features and Benefits

- Exceeds ANSI A118.10 Specifications for Waterproof Membranes
- Exceeds ANSI A118.12 Specifications for Crack Isolation Membranes
- Use for Positive Hydrostatic Pressure Applications
- Fast Drying ready for tile installation in 1 to 3 hours
- Easy roller, trowel or spray application
- No mesh required (optional for waterproofing applications)
- · Apply over new (green) concrete as little as 3 days old
- Isolates cracks up to $\frac{1}{8}$ " (3 mm) or up to $\frac{1}{4}$ " (6 mm) based on application
- · Membrane resistant to growth of mold and mildew
- IAPMO approved
- Approved over control joints no need to locate tile or stone field movement joints directly over control joints
- Contributes to LEED® project points
- Low VOC

Packaging

One U.S. gallon plastic pails (3.78 L)	Product #15035484
3.5 U.S. gallon plastic pails (13.24 L)	Product #15035482
5 U.S. gallon plastic pails (18.93 L)	Product #15035483
TEC® Waterproofing Mesh available in:	
6 in. x 50 ft. rolls (150 mm x 15.24 m)	Product #75000351

Coverage

Application	Required Coats	Wet Film Thickness (mils)	Approximate Coverage per Gallon
1/8" (3 mm)	1	25 mils [.025" (.6 mm)]	100 sq. ft. (9.29 m ²)
1/4" (6 mm)	1	50 mils [.05" (1.27 mm)]	50 sq. ft. (4.65 m ²)
Waterproofing	2	1st Coat - 25 mils [.025" (.6 mm)] 2nd Coat - 25 mils [.025" (.6 mm)]	50 sq. ft. (4.65 m²)
Steam rooms	2	1st Coat - 30 mils [.03" (.76 mm)] 2nd Coat - 30 mils [.03" (.76 mm)]	40 sq. ft. (3.72 m ²)

Suitable Substrates

- · When properly prepared, suitable substrates include:
- Concrete (minimum 3 days old), cured mortar beds and masonry (interior or exterior)

- Gypsum wallboard (interior), cementitious backer units (CBU or cement board. Interior or exterior)
- APA Grade Trademarked Exposure 1 Plywood [CDX or better; two layers, 1¹/₈" (28 mm) total minimum thickness, interior floors only]. Interior only. Requires priming with TEC Multipurpose Primer (560).
- · Gypsum underlayment (minimum compressive strength 2000 psi)
- Existing ceramic tile, VCT or non-cushioned sheetgoods provided they are single layer only and well bonded to a substrate approved for tile (interior)
- · Adhesive residue (except tacky or pressure-sensitive adhesive, interior only)
- Self-Leveling Underlayment**
- Cold rolled steel

**May require priming with TEC Multipurpose Primer (560). Hydraflex can be installed according to the moisture sensitive floor covering cure time of the self-leveling underlayment.

Substrate Preparation

All materials should be stored at 50°F (10°C) to 90°F (32°C) 24 hours prior to installation. Application surfaces must be free from oil, grease, dust, paint, concrete sealers, floor finishes or curing compounds. New concrete shall be finished with a steel trowel, have a fine broom finish, and must cure a minimum of 3 days. For high moisture vapor emission concrete applications, the maximum acceptable moisture vapor emission rate is 12 pounds per 1000 square feet (5.4 kg per 92.9 m²) per 24 hours when evaluated by ASTM F1869 or 90% relative humidity per ASTM F2170. Substrate temperature should be a minimum of 43°F (6°C) and air temperature maintained above 50°F (10°C) during installation and drying. Where required, existing concrete surfaces shall be prepared by mechanical method such as scarifying, grinding, sand blasting or shot blasting. Surface protrusions and tile glazes will be removed by sanding, scraping or scarifying. After preparation, remove all dust by vacuuming. Clean concrete floor from dust with a wet sponge and let the floor dry completely before membrane application. Note: Vinyl asbestos tile or any substrate containing asbestos must not be sanded, scored or scarified because of the potential health hazard of breathing dust. Any substrate containing asbestos must be handled in accordance with existing EPA regulations. Contact your local EPA office. Patch and fill holes and voids with an appropriate TEC surface preparation product. Treat existing building construction, contraction (control), expansion or isolation joints as required in the following installation instructions. Provide movement joints in the tile where specified.

Storage

Store in cool, dry location. Do not store open containers, nor leave containers exposed to sunlight. Product must be kept at temperatures of 40°-90°F (4°-32°C). Keep from freezing.

Shelf Life

Maximum of 1 year from date of manufacture in unopened package.

Limitations

- Not for use as a wear surface.
- Do not apply over wet areas.
- Do not use over dimensionally unstable substrates such as particle board, pressboard, lauan plywood, waferboard, tempered hardboard (e.g. Masonite) or fiberglass.
- Do not use in areas subject to hydrostatic pressure from beneath the membrane.
- For exterior wall applications, refer to local building codes for moisture vapor transmission requirements.

Cautions

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered TEC brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Applicable Standard

Exceeds ANSI A118.10 Specifications for Waterproof Membranes Exceeds ANSI A118.12 Specifications for Crack Isolation Membranes

HydraFlex Waterproofing Crack Isolation Membrane (316)			
Description	ANSI A118.10 Requirement	Typical Results	
Shear Strength 7-Day 7-Day, Water Immersion 4-Week 12-Week 100-Day, Water Immersion	50 psi (0.34 MPa) 50 psi (0.34 MPa) 50 psi (0.34 MPa) 50 psi (0.34 MPa) 50 psi (0.34 MPa)	238 psi (1.63 MPa) 150 psi (1.03 MPa) 310 psi (2.12 MPa) 330 psi (2.26 MPa) 125 psi (0.86 MPa)	
Fungus Resistance	Shall not support mold growth	Passes	
Seam Strength	8 lb./inch width	> 20 lb./inch width (> 3.6 lg/cm)	
Breaking Strength	Minimum 170 psi (1.17 MPa)	250 psi (1.72 MPa)	
Dimensional Stability	Maximum 0.7% length change	< 0.7% length change	
Waterproofness Tested in accordance with American Standards for Load Bearing, Bonded, Waterproof Membranes for Thin Set Ceramic Tile and Dimension Stone Installations—ANSI A118.10	No visible water penetration after 48 hours	Passes	
Description	ANSI A118.12 Requirement	Typical Results	
Point Load	Minimum 1000 lb. load without cracking tile	Passes	
Shear Deflection	Standard Performance Min. ¼6" (1.6 mm) High Performance Min. ½" (3 mm)	High Performance	
Crack Resistance Test	Standard Performance Min. ¼6" (1.6 mm) High Performance Min. ¼" (3 mm)	High Performance	
Additional Tests	Test Method	Typical Results	
Accelerated Test for Fungal Defacement	ASTM D5590	Passed with no growth and 10 mm zone off inhibition.	
Water Vapor Permeance	ASTM E96 Procedure A	<0.5 perms at 36 mil DFT	
Elongation	ASTM D751	750%	
Tensile Strength	ASTM D751	250 psi (1.72 MPa)	
Greater than: S Greater than or equ	al to: > Less than: < Less that	n or equal to: <	

Physical Properties

Description		
Physical State	Liquid: Acrylic Emulsion Modified with a Polyurethane Dispersion Waterproofing Mesh: Non-hazardous Fibrous Mesh	
Color	Cured: Purple	
Odor	Cured: None Uncured: Mild Ammonia	
Tile Installation Time [at 70°F (21°C)]	1-3 hours after membrane application. See CURING section for more information.	
Foot Traffic Rating (ASTM C627)	Residential to Extra Heavy Commercial (depending on substrate)	
Service Temperature Rating	-20°F (-29°C) to 320°F (160°C)	
VOC (less water)	12 g/L	
Storage	Store in cool, dry location. Do not store open containers, nor leave containers exposed to sunlight. Keep from freezing.	
Shelf Life	Maximum 1 year from date of manufacture in properly stored, unopened package.	
Freeze/thaw Stability of Liquid	None. KEEP FROM FREEZING.	

5. INSTALLATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS AS WATERPROOFING MEMBRANE

Application—Waterproofing Membrane

To achieve waterproofing properties, a continuous membrane (no voids) of at least 46-50 mils [$\frac{3}{44}$ " (1.14-1.27 mm)] wet film thickness is required over the entire surface. Pre-fill all concrete cracks and plywood gaps up to $\frac{1}{8}$ " (3 mm) wide with membrane prior to application. Treat cracks greater than $\frac{1}{4}$ " (6 mm) wide as expansion joints (see following section).

Apply membrane to entire surface using a ¹/4" to ¹/2" (6-12 mm) nap roller, ³/16" (4.7 mm) v-notch trowel, or airless sprayer*. For waterproofing installations, membrane must be applied in two coats. Apply first coat, measuring membrane periodically with a wet film thickness gage[†] to ensure a minimum thickness of 25 mils wet. Allow first coat to dry approximately 1 hour, until membrane changes to a semi-transparent color. Then apply second coat at right angles to the first coat. An additional 25 mils wet film thickness shall be applied to achieve a combined total thickness of 50 mils wet, curing to a dry film thickness of 30 mils. * Graco® Electric Airless Sprayer Model 390 or equivalent. Specifications: 0.020 Maximum

Nozzle Orifice, Maximum Sprayer Pressure 3,300 psi, flow rate of 0.43 gallons per minute, Contractor FTX11 Gun, RACX 515 Tip & Guard. Graco is a trademark of Graco Inc.

⁺ If a gage is not available, for 25 mils: Insert a dime into the wet Hydraflex with Roosevelt's head upside down and facing you. HydraFlex should completely cover the outer groove on the edge of the dime. For 50 mils: Lay the dime flat and HydraFlex will be the thickness of the dime.

Application—Mesh (Flashing)

Flashing with TEC Waterproof Mesh for common problem areas like; inside corners, outside corners, anywhere vertical surfaces meet horizontal surfaces; or anywhere dissimilar materials meet is optional.

To accomplish flashing, first pre-coat the substrate intersections 4" (100 mm) on each side. Then fully embed the 6" (150 mm) wide waterproofing mesh in both directions into the pre-coated areas with a 3" (76 mm) overlap on each side. Allow to dry (approximately 30 to 45 minutes) before full application of membrane.

Application—Joint Details

Cracks or Control Joints [typically ¹/4" (6 mm) or smaller]: Ensure crack or joint is clean and free of all debris. Then fill the crack or joint with membrane. For optional mesh application, spread to 4" (100 mm) on either side, embedding the waterproofing mesh. Install the membrane over the entire surface ensuring a continuous 50 mil wet film thickness. Generic movement joints in the tile should be placed as shown in TCNA EJ171F Movement Joint Guidelines. Place at a frequency of 20' to 25' in each direction for interior installations and 8' to 12' for exterior installations or interior installations with direct sunlight or moisture exposure. Perimeter joints should be placed as shown in EJ171. When HydraFlex is applied over the entire substrate, it is not necessary to locate tile or stone field movement joints directly over control joints or cracks as shown in EJ171B. For treatment of cracks or control joints where HydraFlex Waterproofing Crack Isolation Membrane is not applied over the entire substrate, see Technical Bulletin "Treatment of INDIVIDUAL Concrete Cracks with TEC Products" on tecspecialty.com.

Fig. 1: Treatment of Cracks or Control Joint with TEC HydraFlex Waterproofing Crack Isolation Membrane



TEC[®] HydraFlex[™] Waterproofing Crack Isolation Membrane —



Expansion, Isolation, and Construction Joints: Ensure joint is clean and free of all debris. Install compressible backer rod (open or closed cell backer rod) into the joint. Next compress the specified sealant into the joint according to the sealant manufacturer's printed installation instructions, leaving it flush with the surrounding surface. After the sealant has cured, cover the joint with bond breaker tape. Apply membrane as directed. After installing the membrane over the entire surface ensuring a continuous 50 mil wet film thickness and required cure time, place bond breaker tape over the joint and install tile without bridging the joint. After the tile has been installed, caulk the joint with specified sealant.

Application—Drain Details

HydraFlex must extend to the bottom of the drain flange, with sufficient coverage to channel all water flow to and down the drain. DO NOT cover weep holes with membrane. The following diagram depicts a typical drain configuration:

Fig. 2: Drain Configuration



Note: This diagram is provided to show a typical drain detail and is not intended to make specific design recommendations.

Install a continuous membrane to cover the substrate and up to the drain opening, as shown in the diagram. Once the membrane has dried thoroughly, the flange should then clamp down on the membrane, with the weep holes unobstructed. (See TCA Installation Methods for shower receptors).

Application—Steam Showers

To achieve waterproofing properties compliant with SR613 and SR614, a continuous membrane (no voids) of at least 36-39 mils $[>Y_{32}"$ (0.91-0.99 mm)] combined dry film thickness is required over the entire surface. Pre-treat all concrete cracks and plywood gaps up to $\frac{1}{8}"$ (3 mm) wide with membrane prior to application. Treat cracks greater than $\frac{1}{4}"$ (6 mm) wide as expansion joints (see following section).

Apply membrane to entire surface using a ¼" to ½" (6-12 mm) nap roller, ¼" (6.4 mm) v-notch trowel, or airless sprayer*. For waterproofing or steam shower installations, membrane must be applied in two coats. Apply first coat, measuring membrane periodically with a wet film thickness gage[†] to ensure a minimum wet film thickness of 30 mils. Allow first coat to dry approximately 1 hour, until membrane changes to a semi-transparent color. Then apply second coat at right angles to the first coat. The second coat should also have a wet film thickness of 30 mils to achieve a minimum combined total wet film thickness of 60 mils, curing to a dry film thickness of 36 mils.

- * Graco[®] Electric Airless Sprayer Model 390 or equivalent. Specifications: 0.020 Maximum Nozzle Orifice, Maximum Sprayer Pressure 3,300 psi, flow rate of 0.43 gallons per minute, Contractor FTX11 Gun, RACX 515 Tip & Guard. Graco is a trademark of Graco Inc.
- † If a gage is not available, for 30 mils: Lay a penny flat and HydraFlex will be the thickness of the penny.

Clean-up

Clean tools, hands and excess material immediately (while still fresh) with water. Material that is cured is difficult or impossible to remove.

Curing/protection

HydraFlex membrane is typically ready for tile application in 1-3 hours. Cure times based on 70°F (21°C) and 50% RH. Colder temperatures, higher humidity or green concrete (not fully cured) will extend cure times. In all cases, care should always be taken to not gouge or otherwise disturb or damage the integrity of the cured membrane.

Flood Testing

Inspect cured film to make sure there are no voids, bubbles or breaks in the membrane. Apply additional membrane to fill all voids.

HydraFlex is ready for flood testing when the 2nd coat turns dark purple, with no visible light purple. Drying time after application of the second coat can range from 2 hours under ideal conditions to 12 hours, depending on temperature, relative humidity, substrate porosity and air flow. Corners will generally take longer to dry than flat surfaces. Plug all drains and dam the floor area to be tested. Flood the area to a meaningful test level and place a mark at the initial water level. Check the area carefully, looking for any signs of leakage (air bubbles rising from the leak source). After 24 hours, check water level against mark(s) made at initial height. If significant loss has occurred, further investigation will be necessary to identify leaks. Install tile using a suitable TEC latex-modified mortar or TEC AccuColor EFX® Epoxy

Install the using a suitable FEC latex-modified mortar of FEC Accucolor EFX® Epoxy Grout and Mortar.

INSTALLATION INSTRUCTIONS AS CRACK ISOLATION MEMBRANE

Pre-fill all concrete cracks, control joints and plywood gaps up to $\frac{1}{8}$ " (3 mm) wide with membrane prior to application. For expansion, isolation and construction joints continue joints through the tile installation in accordance with Installation Method EJ171 in the Tile Council of America handbook. Treat dynamic cracks (subject to movement) greater than 1/4" (6 mm) wide for 50 mil wet film thickness, or $\frac{1}{8}$ " (3 mm) wide for 25 mil wet film thickness as expansion joints. Generic movement joints in the tile should be placed as shown in TCNA EJ171F Movement Joint Guidelines. Place at a frequency of 20' to 25' in each direction for interior installations and 8' to 12' for exterior installations or interior installations with direct sunlight or moisture exposure. Perimeter joints should be placed as shown in EJ171. When HydraFlex is applied over the entire substrate, it is not necessary to locate tile or stone field movement joints directly over control joints or cracks as shown in EJ171B. For treatment of cracks or control joints where HydraFlex Waterproofing Crack Isolation Membrane is not applied over the entire substrate, see Technical Bulletin "Treatment of INDIVIDUAL Concrete Cracks with TEC® Products" on tecspecialty.com.

¹/₈" Crack Isolation Applications:

Apply membrane to entire surface using a $\frac{1}{10}$ to $\frac{1}{10}$ (6-12 mm) synthetic nap roller, $\frac{3}{16}$ (4.7 mm) V-notch trowel, or airless sprayer*. Membrane may be applied in one coat. Measure membrane periodically with a wet film thickness gage[†] to ensure a minimum thickness of 25 mils [.025" (.6 mm)] wet, curing to a dry film thickness of 15 mils [.015" (.4 mm)].

¹/₄" Crack Isolation Applications:

Membrane may be applied in one coat to entire surface. Measure membrane periodically with a wet film thickness gage⁺ to ensure a minimum thickness of 50 mils wet, curing to a dry film thickness of 30 mils.

Note: When using a V-notch trowel for crack isolation applications, "key in" a thin coat of membrane using the flat side of the trowel. Immediately afterwards, apply additional material using the notched side of the trowel held at approximately a 45 degree angle to the substrate. Again using the flat side of the trowel, flatten the ridges to form a smooth, continuous membrane.

- * Graco[®] Electric Airless Sprayer Model 390 or equivalent. Specifications: 0.020 Maximum Nozzle Orifice, Maximum Sprayer Pressure 3,300 psi, flow rate of 0.43 gallons per minute, Contractor FTX11 Gun, RACX 515 Tip & Guard. Graco is a trademark of Graco Inc.
- [†] If a gage is not available, for 25 mils: Insert a dime into the wet Hydraflex with Roosevelt's head upside down and facing you. HydraFlex should completely cover the outer groove on the edge of the dime. For 50 mils: Lay the dime flat and HydraFlex will be the thickness of the dime.

Curing

Cure for 1-3 hours. Cure times based on 70°F (21°C) and 50% RH. Thicker films, cooler temperatures, higher humidity or green concrete (not fully cured) will extend cure times.

Install tile using a suitable TEC latex-modified mortar or TEC AccuColor EFX Epoxy Grout and Mortar.

Clean-up

Clean tools, hands and excess material immediately (while still fresh) with water. Material that is cured is difficult or impossible to remove.

6. AVAILABILITY

TEC premium surface preparation, tile, stone, carpet, wood and resilient floor covering installation products are available nationwide. To locate TEC products in your area, please contact:

Phone: 800-832-9002 Website: tecspecialty.com

7. LIMITED WARRANTY

The product(s) covered by this Product Data Sheet are sold subject to a Limited Warranty and related terms. **H.B. Fuller Construction Products disclaims the implied warranties of merchantability and fitness for a particular purpose and all incidental and consequential damages arising out of the sale, purchase or use of this product.** For Limited Warranty details visit tecspecialty.com. To obtain a hard copy of the Limited Warranty call H.B. Fuller Construction Products at 800-832-9023 or mail a written request to the address in Section 2 of this Product Data Sheet.

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical and safety literature

To acquire technical and safety literature, please visit our website at tecspecialty.com.

10. FILING SYSTEM Division 9



To learn more, visit TECspecialty.com



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TEC Installation Systems

Power Grout®

1. PRODUCT NAME

TEC[®] Power Grout[®] (550)

2. MANUFACTURER

H.B. Fuller Construction Products Inc. 1105 South Frontenac Street Aurora, IL 60504-6451 U.S.A. 800.552.6225 Office 800.832.9023 Technical Support 800.952.2368 Fax tecspecialty.com

3. DESCRIPTION

Power Grout is a unique breakthrough in grout technology. It maximizes performance while providing ease of use. Its unique formulation is stain proof* and provides strong, color consistent joints free of efflorescence that is resistant to shrinking and cracking.

Power Grout provides excellent performance in virtually any environment, including high traffic and wet conditions, and in residential and commercial applications.

Key Features and Benefits

- Stain proof* never needs sealing
- Color uniformity and zero efflorescence
- · Fast setting; open to traffic in 4 hours
- For grout joints from 1/16" to 1/2" wide (1.6 mm to 12 mm)
- Residential to Extra Heavy Commercial Applications
- Crack and shrink resistant
- Exceeds ANSI A118.7 specifications
- Interior/exterior use
- · Mold and mildew resistant
- Contributes to LEED® project points
- Zero VOC

*Power Grout is stain proof to most common water based stains when cleaned immediately. The prolonged exposure of any stain will increase the likelihood of permanent staining or discoloration of grout surface.

Packaging

25 lb. plastic bags (11.34 kg) 10 lb. plastic bags (4.54 kg)

7 lb. plastic bags (3.18 kg)

Color

Visit tecspecialty.com for up-to-date color availability.

Substrate Preparation

Proper preparation of the tile and joint surfaces is important and will help promote a quality installation. The joints between the tiles should be free from foreign materials, and be at least $\frac{2}{3}$ of the thickness of the tile in depth. High ridges of adhesive or mortar should be raked out. Any spacers used should be removed. Tiles should be held firmly in place according to manufacturer's instructions before grouting.

Power Grout is a highly pigmented product and it is critical to protect surrounding areas from exposure to pigment. Be sure to protect cabinets, countertops, and other surrounding areas which might become stained by the pigment present in the grout. This is especially important with dark colors which include black pigment.

Due to rough surface texture or high porosity, some tiles require sealing prior to grouting. Consult the tile manufacturer's/fabricator's literature for advice regarding this point. For removing any remaining grout residue, use a grout haze remover.

Notes: Power Grout never needs sealing, however, if the tile or stone is to be sealed after grout is installed, use a compatible solvent based sealer. Test a small area of the tile/stone and grout to ensure you achieve the desired results. If a water-based sealer is required, consult Technical Support for a list of approved sealers or pre-seal the tile/stone. When pre-sealing, do not apply sealer to tile/stone edges as this may prevent proper grout bond.

May scratch polished marble, polished porcelain, glass and/or metal tile or glazed tiles. Follow tile manufacturer/ fabricator recommendations or test a small area prior to use to determine suitability.

For industrial and commercial installations where chemical resistance is required, use TEC[®] AccuColor EFX[®] Epoxy Grout and Mortar in accordance with ANSI A118.3 recommendations.

Coverage

Figures shown in the chart are presented only as guidelines.

Approximate Coverage per Pound					
Tile Cine	Joint Width				
The Size	¹ / ₁₆ "	1⁄8"	1/4"	3/8"	1/2"
1" x 1" x ¼"	3.64 ft ²	1.82 ft ²			
2" x 2" x ¼"	7.29 ft ²	3.64 ft ²			
3" x 6" x 1⁄4"	14.58 ft ²	7.29 ft ²	3.64 ft²	2.43 ft ²	1.82 ft ²
4 ¹ / ₄ " x 4 ¹ / ₄ " x ¹ / ₄ "	15.48 ft ²	7.74 ft ²	3.87 ft ²	2.58 ft ²	1.94 ft ²
6" x 6" x ¹ / ₄ "	21.88 ft ²	10.93 ft ²	5.46 ft ²	3.64 ft²	2.73 ft ²
6" x 24" x 3⁄8"	23.31 ft ²	11.66 ft ²	5.83 ft ²	3.89 ft ²	2.91 ft ²
6" x 36" x ¾"	25.00 ft ²	12.48 ft ²	6.25 ft ²	4.16 ft ²	3.12 ft ²
8" x 8" x 3⁄8"	19.42 ft ²	9.72 ft ²	4.86 ft ²	3.24 ft ²	2.43 ft ²
10" x 10" x 3⁄8"	24.27 ft ²	12.15 ft ²	6.07 ft ²	4.05 ft ²	3.04 ft ²
12" x 12" x ¾"	29.15 ft ²	14.58 ft ²	7.29 ft ²	4.86 ft ²	3.64 ft²
12" x 24" x ¾"	38.91 ft ²	19.42 ft ²	9.72 ft ²	6.48 ft ²	4.86 ft ²
18" x 18" x 3⁄8"	43.67 ft ²	21.88 ft ²	10.93 ft ²	7.29 ft ²	5.46 ft ²
20" x 20" x 3⁄8"	48.54 ft ²	24.27 ft ²	12.15 ft ²	8.10 ft ²	6.07 ft ²
24" x 24" x 3⁄8"	58.14 ft ²	29.15 ft ²	14.58 ft ²	9.72 ft ²	7.29 ft ²

Approximate Coverage per Kilogram

Tile Cine	Joint Width				
The Size	1.6 mm	3 mm	6 mm	9 mm	12 mm
25 x 25 x 6 mm	0.75 m ²	0.37 m ²			
50 x 50 x 6 mm	1.49 m ²	0.75 m ²			
75 x 150 x 6 mm	2.99 m ²	1.49 m ²	0.75 m ²	0.50 m ²	0.37 m ²
108 x 108 x 6 mm	3.17 m ²	1.59 m ²	0.79 m ²	0.53 m ²	0.40 m ²
150 x 150 x 6 mm	4.48 m ²	2.24 m ²	1.12 m ²	0.75 m ²	0.56 m ²
150 x 600 x 9 mm	4.77 m ²	2.39 m ²	1.19 m ²	0.80 m ²	0.60 m ²
150 x 900 x 9 mm	5.12 m ²	2.56 m ²	1.28 m ²	0.85 m ²	0.64 m ²
200 x 200 x 9 mm	3.98 m ²	1.99 m ²	0.99 m ²	0.66 m ²	0.50 m ²
250 x 250 x 9 mm	4.97 m ²	2.49 m ²	1.24 m ²	0.83 m²	0.62 m ²
300 x 300 x 9 mm	5.97 m ²	2.99 m ²	1.49 m ²	0.99 m ²	0.75 m ²
300 x 600 x 9 mm	7.97 m ²	3.98 m ²	1.99 m ²	1.33 m ²	0.99 m ²
450 x 450 x 9 mm	8.94 m ²	4.48 m ²	2.24 m ²	1.49 m ²	1.12 m ²
500 x 500 x 9 mm	9.94 m ²	4.97 m ²	2.49 m ²	1.66 m ²	1.24 m ²
600 x 600 x 9 mm	11.91 m ²	5.97 m ²	2.99 m ²	1.99 m ²	1.49 m ²

Storage

Store in cool, dry location. Do not store open containers.

Shelf Life

Maximum of 18 months from date of manufacture in unopened package.

Limitations

- Jobsite and grout temperature should be 50°-80°F (10°-27°C) for optimal installation.
- Do not install during temperatures below 50°F (10°C).
- Steam cleaning not recommended

Cautions

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered TEC brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Applicable Standard

When mixed with water and tested, Power Grout exceeds ANSI A118.7 Specifications for Ceramic Tile Grouts, Polymer-modified Cement Grout and meets the listed ANSI A118.3 Specifications for Epoxy Grouts.

ISO 13007: Classification CG2WAF

Power Grout (550)			
Description	ANSI A118.7 Requirement	Typical Results	
28 Day Compressive Strength	≥ 3000 psi (20.7 MPa)	10,300 psi (71 MPa)	
28 Day Tensile Strength	≥ 500 psi (3.4 MPa)	700 psi (4.8 MPa)	
28 Day Flexural Strength	≥ 1000 psi (6.9 MPa)	1350 psi (9.3 MPa)	
27 Day Linear Shrinkage	< 0.20% shrinkage	0.082% shrinkage	
28 Day Water Absorption	< 5% absorption	1.1% absorption	
Description	ANSI A118.3 Requirement	Typical Results	
7 Day Linear Shrinkage	<.25% shrinkage	0.10-0.11% shrinkage	
7 Day Compressive Strength	≥ 3500 psi (24.2 MPa)	7000-8000 psi (48.3-55.2 MPa)	
Sag in Vertical Joints	Pass	Pass	

 $\label{eq:Greater than:} {\sf Greater than or equal to:} \geq {\sf Less than:} < {\sf Less than or equal to:} \leq$

Physical Properties

Description	
Physical State	Dry powder
Color	Available in multiple colors
Pot Life	35-55 minutes
Stain Resistance	Allow to cure for 7 days to achieve maximum stain resistance.
Initial Cure [at 72°F (22°C)]	3 to 4 hours
Final Cure	21 days
Foot Traffic Rating (ASTM C627)	Residential to Extra Heavy Commercial
Storage	Store in cool, dry location. Do not store open bags. Use full bags for installation.
Shelf Life	Maximum 18 months from date of manufacture in unopened package

5. INSTALLATION INSTRUCTIONS

Mixing

For best results pour water in a bucket and then add powder. In a clean mixing container, add Power Grout to clean, cold water as specified below:

Size	Water
25 lbs. (11.34 kg)	2.25-2.75 quarts [72-88 fl. oz.] (2.13-2.60 L)
10 lbs. (4.54 kg)	3.6-4.4 cups [28.8-35.2 fl.oz] (0.85-1.04 L)
7 lbs. (3.18 kg)	2.6-3.1 cups [20.2-24.6 fl. oz.] (596-729 mL)

- 1. Start with the low-end water range. Add water per instructions. Do not over water.
- Mix with a drill (350 rpm max.) and mixing paddle attachment for a minimum of 2 minutes. Drill mixing is preferred and provides optimal results – hand mixing will yield acceptable results.
 - Do not add more water until mixture has been mixed for 2 minutes. Product consistency will loosen with mixing. Add water with care not to exceed recommended range. Under conditions that can result a shorter pot life, (i.e. hot weather), mix at the top end of the water range to provide more working time.
- 3. Allow to slake in bucket for 3-5 minutes

4. Remix with drill and mixing paddle for a minimum of 1 minute

Note: HBF-CP recommends that a full container of Power Grout be mixed and used at one time. However, if less than a full container of grout or multiple containers from different lot numbers are used, pre-mix the entire contents of the container(s) prior to mixing with water. (The fine pigment particles may settle during shipment and color variance can occur in the finished joint unless you first dry blend in this fashion.)

To ensure color consistency across the installation, use the same water to grout proportions when using multiple containers for the same job.

Application

Fully pack the joints between the tiles by spreading Power Grout with a clean, hard rubber float. Work only a small area at one time $[5-10 \text{ sq. ft. } (0.5-1 \text{ m}^2)]$. Apply in a diagonal direction across the joint lines to prevent the grout from being dragged out of the joints. Go over each area several times from all directions to make sure that the grout is fully packed in. Remove any excess grout from the surface of the tile by holding the float at a 90° angle to the surface and moving it diagonally across the joints. Repeat the entire process until all joints are grouted.

When grouting very absorptive tiles e.g. bisque tile and/or for thin grout lines, mix Power Grout to the highest water ratio. Additionally, pre-moistening the tile edges by spraying or wiping with a damp sponge or towel will help ensure that the grout retains water needed to properly cure.

Clean-up

Allow grout to firm up 15-30 minutes under normal conditions before final cleanup. Check for firmness by touching the grout with your finger. If there is transfer, wait 5 minutes and test again.

Wet a grout sponge in a pail containing cool, fresh water and wring out. Loosen the grout on the tile surface by moving the sponge in a circular motion across the tiles. Then use the sponge to smooth the joints. Completely rinse and wring out the sponge. Wipe diagonally across the tiles to remove grout residue. Use each side of the sponge once, then rinse, completely wring out and repeat. Change the water frequently.

Allow the grout to dry 30 to 60 minutes and remove all remaining grout residue from the tiles with a damp sponge or terrycloth towel.

Protection

Protect the finished installation from foot traffic or impact for at least 4 hours. Wait 24 hours before mopping, routine cleaning or shower use. Do not expose to stains, complete water immersion or freezing for 7 days.

No need to seal grout. If tile or stone is to be sealed after grout is installed, use a compatible solvent based sealer. Test a small area of the tile/stone and grout to ensure you achieve the desired results.

If a water-based sealer is required, consult Technical Support for a list of approved sealers. Allow grout to cure for 72 hours before sealing.

6. AVAILABILITY

TEC Premium Tile and Stone Installation Products are available nationwide. To locate TEC products in your area, please contact: Phone: 800-832-9002 Website: tecspecialty.com

7. LIMITED WARRANTY

The product(s) covered by this Product Data Sheet are sold subject to a Limited Warranty and related terms. **H.B. Fuller Construction Products disclaims the implied warranties of merchantability and fitness for a particular purpose and all incidental and consequential damages arising out of the sale, purchase or use of this product.** For Limited Warranty details visit tecspecialty.com. To obtain a hard copy

TEC® Power Grout® –

of the Limited Warranty call H.B. Fuller Construction Products at 800-832-9023 or mail a written request to the address in Section 2 of this Product Data Sheet.

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical and safety literature

To acquire technical and safety literature, please visit our website at tecspecialty.com.

10. FILING SYSTEM

Division 9





 $\label{eq:conforms} \begin{array}{c} \mbox{Conforms with LEED v4 low emitting interiors.} \\ \mbox{Compliant with (CDPH) Standard Method v1.2 VOC Emissions.} \end{array}$

To learn more, visit TECspecialty.com



H.B. Fuller Construction Products Inc. | 1105 South Frontenac Street Aurora, IL 60504-6451

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AccuColor 100[®] 100% Silicone Sealant

1. PRODUCT NAME

TEC® AccuColor 100® 100% Silicone Sealant (155)

2. MANUFACTURER

H.B. Fuller Construction Products Inc. 1105 South Frontenac Street Aurora, IL 60504-6451 U.S.A. 800.552.6225 Office 800.832.9023 Technical Support 800.952.2368 Fax tecspecialty.com

3. DESCRIPTION

AccuColor 100[®] 100% Silicone Sealant is easy to use, flexible, and non-corrosive. It resists water and most common chemicals, offers permanent flexibility, won't crack, shrink or sag and provides excellent weatherability. Use for swimming pools, spas, fountains and other wet area applications.

Key Features and Benefits

- Neutral cure, low odor
- Allows both 25% joint compression and expansion
- Excellent weatherability, long life
- Permanent flexibility and durability, won't crack or soften
- · Easy to use
- The neutral curing mechanism is ideally suited for use in confined work areas since no objectionable odors are generated
- UV light won't break down, discolor or shrink product
- Requires no sealing
- Contributes to LEED® project points
- Low VOC

Packaging

10.5 fl. oz. cartridge (310 mL)

Colors

Available in 34 colors. Contact H.B. Fuller Construction Products Inc. for a current color selection card.

Coverage

Figures shown in the chart are presented only as guidelines. Coverage will vary with application and bead size.

Bead Size	Approximate Coverage per 10.5 fl. oz. Cartridge (310 mL)
1⁄8" (3 mm)	50 lineal feet (15.2 lineal meter)
1⁄4" (6 mm)	25 lineal feet (7.6 lineal meter)

Suitable Substrates

- Natural stone*
- Glass
- Metals
- Ceramic/masonry
- Porcelain
- Wood
- Plastic surfaces

*May discolor natural stone, test small, inconspicuous area prior to application.

Storage

Store in cool, dry location. Do not store open containers.

Shelf Life

Maximum of 24 months from date of manufacture in properly stored, unopened package.

Limitations

- Certain stone surfaces may be stained when sealed with a colored sealant, test a small area prior to use to determine suitability.
- Temperature Range: -62°F to 400°F (-52.2°C to 204°C) continuous use.
 -62°F to 450°F (-52.2°C to 232°C) intermittent use.
- Maximum joint depth should not exceed 1/2" (12 mm) thickness (use backer rod for deeper joints).
- Maximum joint width is 1" (25 mm), minimum joint width is 1/16" (1.6 mm).
- Not for use in aquarium applications or where subject to abrasion, abuse or wear.
- Not paintable.
- Not for use on building materials that may bleed oils, plasticizers or solvent materials (e.g. impregnated wood, oil based caulks).
- Not a structural glazing adhesive.
- Not food safe.

Cautions

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered TEC[®] brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Applicable Standards

ASTM C920 – Type S, NS, Class 50; TT-S-00230C (COM-NBS); TT-S-01543A (COM-NBS); MIL-A-46106A; AAMA 808.3, 805.2, 803.3 (Type I), 802.3 (Type II)

AccuColor 100 [®] 100% Silicone Sealant (155)			
Description	Typical Results		
Extrusion Rate	500 g/min		
Tensile Strength	190 psi (1.31 MPa)		
Elongation	650%		
Slump	Nil		
Shore A Hardness	15		
Tack Free Time	25 minutes		
Volume Shrinkage	< 3%		
Greater than: > Greater than or equal to: \geq Le	ss than: < Less than or equal to: ≤		

Physical Properties

Description	
Physical State	Soft Paste
Color	33 pigmented colors, 1 clear
Odor	Nil
Open Time [at 72°F (22°C)]	10 minutes*
Final Cure	1 day, 14 days for swimming pool applications
Foot Traffic Rating (ASTM C627)	Residential
VOC	40 g/L
Freeze/Thaw Stability	Freeze/thaw stable. If frozen, slowly bring material back to room temperature.
Storage	Store in cool, dry location. Do not store open containers.
Shelf Life	Maximum 24 months from date of manufacture in properly stored, unopened package.

*Temperature and humidity can affect open time.

Product Data

5. INSTALLATION INSTRUCTIONS

Application

Maintain surface temperature between 40°F and 90°F (4°C and 32°C) during installation and for 24 hours thereafter. For expansion joints or perimeter sealing, the ratio of the joint width to sealant depth should be roughly 2:1. Apply to clean, dry surfaces free from dirt, grease, and existing sealant. For deep joints first install polyurethane or polyethylene foam backer rod. Metal, glass and plastic surfaces should be cleaned by mechanical or solvent procedures. Simple detergent or soap and water treatments are not acceptable. In all cases where utilized, solvents should be wiped on and off with clean, oil and lint free cloths. Cut nozzle at angle to desired bead size. Use masking tape on both sides of joint to allow for easy clean up. Fill joint completely and tool to desired thickness immediately before a skin forms. Remove masking tape immediately after tooling and wipe any sealant off the face of the veneer. Skins over within 10 minutes. When sealing limestone or other porous stone, conduct small test area to verify non-staining as variations exist.

Note: It is the sole responsibility of the installer to determine the suitability and compatibility of the product for the intended application.

Clean-up

Clean-up or remove from unintended areas before sealant skins over. Wipe hands with dry cloth to remove sealant. Wash with soap and water.

Curing

Protect from traffic or water exposure for 24 hours. **Swimming pool applications or submerged applications –** use polyethylene backer rod or tape and allow 14 days to cure before filling pool. Fully cured sealant is non-hazardous.

6. AVAILABILITY

TEC premium surface preparation, tile, stone, carpet, wood and resilient floor covering installation products are available nationwide. To locate TEC products in your area, please contact: Phone: 800-832-9002 Website: tecspecialty.com

7. LIMITED WARRANTY

The product(s) covered by this Product Data Sheet are sold subject to a Limited Warranty and related terms. **H.B. Fuller Construction Products disclaims the implied warranties of merchantability and fitness for a particular purpose and all incidental and consequential damages arising out of the sale, purchase or use of this product. For Limited Warranty details visit tecspecialty.com. To obtain a hard copy of the Limited Warranty call H.B. Fuller Construction Products at 800-832-9023 or mail a written request to the address in Section 2 of this Product Data Sheet.**

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical and safety literature

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To acquire technical and safety literature, please visit our website at tecspecialty.com.

10. FILING SYSTEM

Division 9

Product Data

To learn more, visit TECspecialty.com



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TECInstallationSystems

TEC Installation Systems

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1. PRODUCT NAME

 \mbox{TEC}^{\circledast} Level \mbox{Set}^{\circledast} 300 Self-Leveling Underlayment (300)

2. MANUFACTURER

H.B. Fuller Construction Products Inc. 1105 South Frontenac Street Aurora, IL 60504-6451 U.S.A. 800.552.6225 Office 800.832.9023 Technical Support 800.952.2368 Fax tecspecialty.com

3. DESCRIPTION

Ideal for fast track applications, Level Set 300 is a high-performance, calcium aluminate-based, self-leveling underlayment that provides a flat, extremely smooth, and durable surface for finished flooring installation.

Key Features and Benefits

- Exceptional workability for an ultra-smooth surface
- Formulated for fast-track applications walkable in 2-3 hours
- Up to 2" (50 mm) neat and can be featheredged to adjoining elevations
- Applied up to 5" (12 cm) with proper aggregate
- Pourable or pumpable
- High compressive strength 5,500 psi (38.0 MPa)
- · Accepts non-moisture sensitive tile and stone in 4 hours
- Install moisture sensitive floor covering in 16-24 hours
- Contributes to LEED[®] project points
- VOC 0

Packaging

50 lb. plastic bags (22.68 kg)	Product #15030023
50 lb. moisture-resistant bags (22.68 kg)	Product #15036050

Coverage

Coverages shown are approximate. Actual coverages may vary according to substrate conditions and thickness of applications.

Application	Approximate Weight in Pounds	Approximate Coverage
Depth	per Square Foot (kg/m²)	per 50 lbs. (22.68 kg)
1⁄8"	1.1-1.3	50 sq. ft.
(3 mm)	(5.4-6.3)	(4.65 m²)
1⁄4"	2.2-2.6	25 sq. ft.
(6 mm)	(10.7-12.7)	(2.32 m²)
¹ ⁄2"	4.6-5.3	12.5 sq. ft.
(12 mm)	(22.5-25.9)	(1.16 m²)
1"	9.1-10.5	6.25 sq. ft.
(25 mm)	(44.4-51.3)	(0.58 m²)
2"	18.2-21.0	3.125 sq. ft.
(50 mm)	(88.8-102.6)	(0.29 m ²)

Suitable Substrates

When properly prepared, suitable substrates include:

- Concrete
- · Ceramic, porcelain or quarry tile
- Pavers
- Cement or epoxy terrazzo
- · Cement backerboard
- Metal
- VCT or full glued down, non-cushioned vinyl sheetgoods
- Exterior grade plywood (with reinforcement lath)

- · Oriented Strand Board (OSB) (with reinforcement lath)
- Gypsum substrates (properly primed) with minimum tensile bond strength 72 psi (0.5 MPa)

Substrate Preparation (in accordance with ASTM F710)

All materials should be stored at 50°F (10°C) to 90°F (32°C) 24 hours prior to installation. It is required that all surfaces be structurally sound and free from any contaminants that may inhibit bond, including oil, grease, dust, loose or peeling paint, sealers, floor finishes, curing compounds or contaminants. Minimum tensile bond strength of 72 psi (0.5 MPa) is required. Substrate temperature should be a minimum of 43°F (6°C) and air temperature maintained above 50°F (10°C). DO NOT cover existing building expansion joints, isolation joints or any crack or joint subject to movement. Provide control joints where specified. Create a minimum of 1/8" to 1/4" (3-6 mm) wide gap where Level Set 300 Self-Leveling Underlayment abuts walls, columns, and fixtures by installing a self-sticking foam such as weather stripping tape or damp sand (vacuum up sand after self-leveling underlayment has cured). Surfaces must be primed with TEC Multipurpose Primer prior to installation of Level Set 300. See Primer label for application instructions. Level Set 300 can be installed over green concrete with RH of 99% or less. For moisture sensitive floor coverings refer to the finished floor manufacturer's specifications on moisture limitations. Remediation of excessive moisture conditions must be addressed prior to the installation of Level Set 300. This product is not a moisture vapor barrier. If substrate moisture content exceeds the maximum allowed by the flooring manufacturer, then moisture mitigation must be applied prior to application of Level Set 300. To reduce moisture vapor emissions to an acceptable level, use TEC LiquiDam™ Penetrating Moisture Vapor Barrier or LiquiDam EZ[™] Moisture Vapor Barrier (see product data sheets for details). For installation over adhesive (except for tacky and pressure sensitive adhesive), remove adhesive by scraping (mechanical removal, DO NOT use chemical adhesive removers) until all that remains is a thin transparent layer of adhesive residue.

Single Layer of Exterior Grade Plywood or Oriented Strand Board (OSB) with Lath: Wood sub-flooring must be securely fastened with screw type or ring shank nails and adhesive. Installations of exterior grade plywood or OSB (APA Rated Sturd-I-Floor OSB, Exposure 1 or better) require 34" (19 mm) single layer minimum thickness on bridged floor joists up to 24" (60 cm) on center, with a maximum deflection of 1/360 of the span. Allow a gap of 1/8" to 1/4" (3-6 mm) between sheets of plywood or OSB. Long edges of subfloor must be tongue and groove or supported by bridging between floor joists.

Use suitable TEC surface preparation products (Feather Edge Skim Coat VersaPatch[®], Fast-Set Deep Patch) to plug all floor openings, gaps and cracks and install termination dams to prevent any seepage. Prime the floor and allow it to dry to a clear film. Next, staple ¼" (6 mm) galvanized diamond metal or plastic lath to the floor overlapping 2" (5 cm) at seams. Staple every 6" (15 cm) around the perimeter and overlaps, and every 8" (20 cm) in the field of the lath. Install Level Set 300 based upon the joist spacing shown in the table below:

Joist Spacing (o.c.) Minimum SLU thickness with lath over single layer ¾" (19 mm) tongue and groove subfloor		Minimum SLU thickness with lath over single layer 5/4" (15mm) tongue and groove subfloor	
16" or less	³⁄₀"	1⁄2"	
(40 cm or less)	(9 mm)	(12 mm)	
20" or less	¹ ⁄2"	5∕8"	
(50 cm or less)	(12 mm)	(15 mm)	
24" or less	₅	³ ⁄4"	
(60 cm or less)	(15 mm)	(19 mm)	

Double Layer of Exterior Grade Plywood without Lath: Exterior Grade Plywood subflooring must be a minimum thickness of $\frac{5}{4}$ " (15 mm), securely fastened with screw type or ring shank nails and adhesive. Maximum floor joist spacing is 16" (40 cm) o.c. with a maximum deflection of $\frac{1}{360}$ of the span. Allow a gap of $\frac{1}{4}$ " to $\frac{1}{4}$ " (3-6 mm) between sheets of plywood. Long edges of subfloor must be tongue and groove or supported by bridging between floor joists. Install Exterior Grade Plywood underlayment, minimum thickness of $\frac{5}{4}$ " (15 mm) with $\frac{1}{4}$ " (3 mm) gap between sheets. Underlayment fasteners should not penetrate

TEC® Level Set® 300 Self-Leveling Underlayment -

joists below. For $\frac{3}{4}$ " (19 mm) tongue and groove subfloor thickness over joists 16" (40 cm) o.c., install Exterior Grade Plywood underlayment, minimum thickness is $\frac{1}{2}$ " (12 mm) with $\frac{1}{4}$ " (3 mm) gap between sheets.

Use suitable TEC[®] surface preparation products (Feather Edge Skim Coat, VersaPatch[®], Fast-Set Deep Patch) to plug all floor openings, gaps and cracks and install termination dams to prevent any seepage. Prime the floor. Allow primer to dry to a clear film. Maintain minimum thickness for Level Set[®] 300 of ³/₈["] (9 mm).

Radiant Heating Systems: For radiant heat system installations, always prime the substrate before installing heating system components on the substrate surface. Heating system must be off 2 days before and kept off for 7 days after installation. *Electric Wire Systems Installed Over Substrate* – Level Set 300 may be used in conjunction with wire systems installed over concrete, single layer plywood/OSB subfloors with plastic lath or double layer plywood floors without lath. Follow the requirements for each substrate stated above and maintain minimum thickness of self-leveling underlayment above the wire of 1/4" (6 mm).

Electric Mat Systems Installed Over Substrate – Mat system configurations can vary by system manufacturer. Contact system manufacturer for installation instructions.

Hydronic Systems Installed Over Substrate – Level Set 300 may be used in conjunction with hydronic systems installed over concrete or 34" (19 mm) single layer plywood/OSB subfloors with lath. Follow the requirements for each substrate stated above and maintain minimum thickness of self-leveling underlayment over the heating tubes of 1/2" (12 mm) (depending on the diameter of the tubing, two lifts of self-leveling underlayment may be required). When installing ceramic tile over hydronic systems the application of a crack isolation membrane over the self-leveling underlayment is recommended.

Hydronic Systems Embedded in Concrete Substrate – Follow the requirements for concrete substrate installations stated above and maintain minimum thickness of concrete over the embedded heating tubes of ³/₄" (19 mm). When installing ceramic tile over hydronic systems the application of a crack isolation membrane over the self-leveling underlayment is recommended.

Metal Substrates: Suitable metal substrates include non-galvanized steel, stainless steel, copper, aluminum and lead. Metal substrates must be fully supported, firmly attached and rigid with no flexing or vibration. In addition to the general surface contaminants listed above, metal surfaces shall be free of rust or corrosion. Remove by sand blasting, wire brush or other mechanical means. To prevent rusting of unpainted steel, prime with TEC Multipurpose Primer immediately after surface cleaning.

Storage

Store in a cool, dry area away from direct sunlight. Do not store open containers.

Shelf Life

Maximum of 1 year from date of manufacture in properly stored, unopened package.

Limitations

- · For interior use only.
- Do not apply when the temperature is below 50°F (10°C).
- Not for use in conditions of hydrostatic pressure or excessive moisture.
- Do not apply over sealed concrete, tempered hardboard (e.g. Masonite), particle board, or lauan plywood.
- Level Set 300 is not a wear surface and should be protected from construction trade traffic until the final floor covering is applied. Do not allow heavy or sharp metal objects to be dragged directly across the Level Set 300 surface.

Cautions

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered TEC brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Level Set 300 Self-Leveling Underlayment (300)

Description	Typical Results
28 Day Compressive Strength	>5500 psi (37.92 MPa)
28 Day Flexural Strength	>1100 psi (7.58 MPa)
28 Day Shrinkage	<0.07%

 $\label{eq:Greater than: } {\sf Greater than or equal to: } \geq {\sf Less than: } {\sf < Less than or equal to: } \leq$

Physical Properties

Description	
Physical State	Dry powder
Color	Gray
Working Time	25-35 minutes*
Walkable	2-3 hours*
Flooring Installation	Tile: 3-4 hours* Moisture sensitive: 16-24 hours*
Flow (ASTM C1708)	5"-6" (12.7-15.2 cm)*
Storage	Store in a cool, dry area, away from direct sunlight. Do not store open containers.
Shelf Life	Maximum 1 year from date of manufacture in properly stored, unopened package.

*Temperature and humidity will affect flow, working time and set time.

5. INSTALLATION INSTRUCTIONS

Mixing

Mix 2 bags of Level Set 300 at a time. In a clean appropriate sized container add 6.5 qts. (6.2 L) of clean, cool potable water for **EACH** 50 lb. (22.68 kg) bag. Next add the Level Set 300, while mixing at full speed using a mixing blade suitable for the mixing container shape attached to a heavy-duty $\frac{1}{2}$ " (12 mm) drill (minimum 650 rpm). Do not add extra water. Mix completely for a minimum of 2 minutes until lump free, adding no additional water. Do not over mix or move the mixer up and down while mixing as this could entrap air, lower the strength and may cause cracking and/or pin holing. The formation of a white film on the surface is an indication of overwatering. To keep the job moving, it is recommended that two mixing drums be used simultaneously. This will allow one mixing container to be poured while the other is being mixed. **Use full bags only.**

For applications utilizing a pumping system: Level Set 300 can be mechanically mixed using either an in-line continuous mixer and pump or a batch mixer and pump using 6.5 qts. (6.2 L) clean potable water to **EACH** 50 lb (22.68 kg) bag of powder. The minimum required hose length is 100 ft. (30.5 m) for In-Line Mixers. For horizontal applications greater than 300 ft. (91.4 m) and vertical applications greater than 40 ft. (12.2 m) contact TEC Technical Services at 800-832-9023.

Before starting, ensure the mixer and pumps are completely clean and in good working order. Refer to the manufacturer instructions for specific maintenance and cleaning. Prior to Level Set 300 installation adjust the pump to ensure proper mixing and a uniform distribution of sand is achieved throughout the mix. Do not overwater as this will lower the strength and may cause cracking and/or pin holing. To avoid segregation and over watering during installation, the water settings may require adjusting. Check the product consistency to ensure a uniform distribution of the aggregates during pumping. The conditions that can affect the overall performance are, but not limited to, length of hose, water temperature, water pressure, substrate, ambient air temperature and powder temperature. On the end of the hose attach a mesh-screen sock to trap any foreign or unmixed material. Always test pump using the actual maximum hose length and conditions before installation to ensure proper application and appearance is achieved. Test the mixed material periodically from the pump to ensure suitable mix and flow prior to general application.

TEC® Level Set® 300 Self-Leveling Underlayment

Application

Apply when air temperature is between 50°F (10°C) and 90°F (32°C) within 24 hours of application. Close all windows, doors and HVAC vents to minimize air flow. Divide the areas to permit continuous placement without cold joints. Pour or pump the blended Level Set® 300 onto the floor and disperse with a gauge rake. Use cleated shoes to avoid leaving marks. To prevent ridges between batches, use a smoother and work a narrower dimension. Optimum results can be obtained by providing a continuous wet flow throughout the placement. Level Set 300 has a working time 25-35 minutes at 70°F (21°C). **Temperature and humidity will affect flow, working time and set time.** It is the sole responsibility of the installer to determine the suitability and compatibility of the Level Set 300 for the user's intended use.

Increased thickness: For installations 2"-5" (5 cm-12.7 cm) Level Set 300 can be extended with 15 lb. (6.8 kg) of clean, washed $\frac{3}{4}$ " (9 mm) pea gravel per 50 lb. (22.68 kg) bag. If the aggregate is wet, less water will be required to prevent over watering the Level Set 300. Mix first with water then add 15 lb. (6.8 kg) of aggregate, per 50 lb. (22.68 kg) bag of Level Set 300 mixing until the aggregate is coated, then place. The addition of aggregate will decrease the workability and may require a finish coat to obtain a smooth surface finish. Allow the extended layer to dry, normally 16-24 hours.

If applying a second lift of self-leveling underlayment, prime the surface with TEC[®] Multipurpose Primer mixed 1:3 with potable water per priming instructions outlined in the TEC Multipurpose Primer product data sheet and a second coat of primer should be applied at a dilution of 1:2 after the first coat has dried. Outgassing can occur when applying multiple lifts. If capping is required contact TEC Technical Services.

Curing

Protect from excessive drying due to temperature, air movement and direct sunlight. Turn off all HVAC systems whenever possible for up to 24 hours after installation. The use of damp curing or the use of curing compounds is not recommended.

NOTE: Level Set 300 is not a wear surface and should be protected from construction trade traffic until the final floor covering is applied.

Clean-up

While material is still fresh, clean tools, hands and equipment with warm soapy water.

6. AVAILABILITY

TEC premium surface preparation, tile, stone, carpet, wood and resilient floor covering installation products are available nationwide. To locate TEC products in your area, please contact: Phone: 800-832-9002 Website: tecspecialty.com

7. LIMITED WARRANTY

The product(s) covered by this Product Data Sheet are sold subject to a Limited Warranty and related terms. **H.B. Fuller Construction Products disclaims the implied warranties of merchantability and fitness for a particular purpose and all incidental and consequential damages arising out of the sale, purchase or use of this product. For Limited Warranty details visit tecspecialty.com. To obtain a hard copy of the Limited Warranty call H.B. Fuller Construction Products at 800-832-9023 or mail a written request to the address in Section 2 of this Product Data Sheet.**

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical and safety literature

To acquire technical and safety literature, please visit our website at tecspecialty.com.

10. FILING SYSTEM

Divisions 3 and 9



To learn more, visit TECspecialty.com



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Super Flex™ Ultra-Premium Thin Set Mortar

Updated November 2023

1. PRODUCT NAME

TEC[®] Super Flex[™] Ultra-Premium Thin Set Mortar (392/393)

2. MANUFACTURER

H.B. Fuller Construction Products Inc. 1105 South Frontenac Street Aurora, IL 60504-6451 U.S.A. 800.552.6225 Office 800.832.9023 Technical Support 800.952.2368 Fax tecspecialty.com

3. DESCRIPTION

Whether for new construction or renovation, Super Flex premium latex mortar delivers unsurpassed bonding strength with virtually any tile and substrate combination. Perfect for porcelain and most glass tile, Super Flex mortar's high polymer solids content, together with its special adhesion promoter, ZS-100*, give you unparalleled bond strength.

* ZS-100 is covered under US patent number 5,366,550.

Key Features and Benefits

- Flexible: absorbs 1/16" (1.6 mm) in-plane movement
- · Patented bonding formula
- · Approved for up to 20" (50 cm) o.c. manufactured, I-beam, floor truss systems
- · Best for bonding porcelain tile
- One part-just add water and mix
- Exceeds ANSI A118.4E, A118.11 and A118.15E specifications
- Interior/exterior use
- Zero VOC
- · Contains recycled materials*

* Gray formula contains 7% pre-consumer recycled material. White formula contains 0% pre-consumer recycled material.

Packaging

50 lb. (22.68 kg) moisture-resistant bags	
Gray	Product #15035028
White	Product #15035030
50 lb. (22.68 kg) plastic bags	
Gray	Product #15030008
White	Product #15030005
25 lb. (11.34 kg) moisture-resistant bags	
White	Product #15035029
9.75 lb. Pure Pak* container (4.42 kg)	
White	Product #15035031
*Registered trademark of Excello Corporation	

Coverage

Coverage will vary with condition of substrate. Required trowel size will vary with the tile size, type and substrate uniformity. Select the trowel size that will ensure 100% coverage. Figures below are presented only as guidelines.

	Approximate Coverage per			
Trowel Size	50 lbs.	25 lbs.	9.75 lbs.	
	(22.68 kg)	(11.34 kg)	(4.42 kg)	
³ ⁄16" x ⁵ ⁄32" (4.7 x 4 mm) V-notch trowel	_	_	28-30 sq. ft. (2.6-2.8 m²)	
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)	90-100 sq. ft.	45-50 sq. ft.	17-19 sq. ft.	
square-notched trowel	(8.4-9.3 m²)	(4.2-4.6 m²)	(1.6-1.8 m²)	
¹ /4" x ³ /8" x ¹ /4" (6 x 9 x 6 mm)	65-75 sq. ft.	33-38 sq. ft.	12-14 sq. ft.	
square-notch trowel	(6-7 m²)	(3.1-3.5 m ²)	(1.1-1.3 m ²)	

Suitable Substrates

When properly prepared, suitable substrates include:

- Cured concrete, cured mortar beds, brick and masonry (interior and exterior installations)
- APA Grade Trademarked Exposure 1 Plywood [Underlayment grade or better, two layers, 1¹/₈" (28 mm) total minimum thickness for joists 16" (40 cm) o.c., interior floors only].
- · Gypsum wallboard (dry interior wall areas only)
- Water resistant gypsum wallboard (i.e.: greenboard, interior walls only, dry to intermittent water exposure only)
- Cementitious backer units (CBU) or glass mat backerboard
- Existing ceramic tile and natural stone, provided existing flooring is wellbonded to an approved substrate.
- Vinyl composition tile, asphalt tile, linoleum or non-cushioned vinyl sheetgoods provided such surfaces are single layered, well-bonded to an approved substrate and properly prepared.
- Plastic laminate (interior countertops only) provided the counter is structurally sound and level.
- · Adhesive residue (except tacky or pressure-sensitive adhesive).

Substrate Preparation

All substrates must be dry, structurally sound with maximum deflection per industry standards of \downarrow_{360} for ceramic tile installations and \downarrow_{720} for natural stone installations; and free from oil, grease, dust, paint, sealers or concrete curing compounds. All contaminants must be removed prior to installation of tile. Surface protrusions and tile glazes shall be removed by sanding, scraping or scarifying. After preparation, remove all dust by vacuuming.

Notes: Vinyl asbestos tile or any substrate containing asbestos must not be sanded, scored or scarified because of the potential health hazard of breathing dust. Any substrate containing asbestos must be handled in accordance with existing EPA regulations. Contact your local EPA office. Expansion joints must be provided in the tile work over all construction, control and expansion joints in the backing and where backing materials change. Follow ANSI A108.01 Section 3.7 Requirements for Expansion Joints. Maximum variations in all substrates must not exceed ¼" in 10 ft. (6 mm in 3 m) or ¼e" in 1 ft. (1.6 mm in 0.3 m) from the required plane. For non-level, interior surfaces use an appropriate TEC Self-Leveling Underlayment.

Storage

Store in a cool, dry area away from direct sunlight. Do not store open containers.

Shelf Life

Maximum of 1 year from date of manufacture in unopened package.

Limitations

- Only install when the temperature is between 50°F (10°C) 90°F (32°C).
- Glass tile may not be suitable over some substrates (such as plywood, or some membranes). Verify substrate with the glass tile manufacturer.
- · Use only for thin-bed installation of glass tile.
- Contact TEC Technical support before installing glass with a decorative coating on the tile backing or glass tile larger than 6" x 6" (15 x 15 cm) as these materials require more detailed precautions.
- Not for installing green marble, other moisture-sensitive stone tile or resinbacked marble; use TEC[®] AccuColor EFX[®] Epoxy Grout and Mortar.
- For non-green marble tile applications, use white thin set mortars.
- Not for use over rubber, strip wood floors, oriented strand board, particle board, lauan plywood.
- · Do not apply over single layer wood floors.
- Substrate temperature should be a minimum of 43°F (6°C) during application and air temperature maintained above 50°F (10°C) during installation and for 72 hours after installation.
- Certain natural stone tiles may be affected by mortar shadowing or staining. Test a small area prior to use to determine suitability.

TEC[®] Super Flex[™] Ultra-Premium Thin Set Mortar -

Cautions

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered TEC brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Applicable Standard

Exceeds ANSI A118.4E, A118.11 and A118.15E specifications ISO 13007: Classification C2ES1P2

Super Flex Ultra-Premium Thin Set Mortar (392/393)						
Description	ription ANSI Requirement Typical Result					
28 Day Shear Strength Glazed Wall Tile Impervious Ceramic Tile (Porcelain) Quarry Tile	> 450 psi (3.10 MPa) > 400 psi (2.76 MPa) > 150 psi (1.03 MPa)	 > 600 psi* (4.1 MPa) 700 psi (4.8 MPa) 725 psi (5.0 MPa) * ANSI-specified glazed wall tile failed at 600 psi (4.1 MPa) 				
Sag on Vertical Surfaces	≤ ¹ ∕16" (1.6 mm)	0-1⁄32" (0-0.8 mm)				
Extended Open Time	> 75 psi (0.5 MPa) at 30 Minutes	Pass				
Adjustability at Room Temperature	≥ 30 minutes	50-70 minutes				
Final Set	9-15 hours	11-13 hours				
Tested in accordance with ANSI A118.15E Specific	cations for Latex-Modified Dry Set N	Nortars				
Flexibility (movement absorbed before shear) Porcelain to Concrete	No ANSI spec currently available ¹ /16" (1.6 mm)					
Tested in accordance with ANSI A118.11 Specifications for Latex-Modified Dry Set Mortars over Exterior Grade Plywood						
28 Day Shear Strength Quarry Tile	> 150 psi (1.0 MPa)	335 psi** (2.3 MPa) ** Plywood laminates typically failed over 325 psi (2.2 MPa)				
Greater than: > Greater than or equal to: ≥	Less than: < Less t	han or equal to: ≤				

Physical Properties

Description	
Physical State	Dry powder
Color	Available in white and gray
Pot Life	2 to 3 hours
Initial Cure [at 72°F (22°C)	16 to 24 hours
Final Cure	21 days
Foot Traffic Rating (ASTM C627)	Residential to Extra Heavy Commercial (depending on substrate)
Storage	Store in a cool, dry area away from direct sunlight. Do not store open containers.
Shelf Life	Maximum 1 year from date of manufacture in properly stored, unopened package.

5. INSTALLATION INSTRUCTIONS

Mixing

For best results, maintain all tiling materials, substrates, room and adhesives at 50°-70°F (10-21°C) for 24 hours before installation. Maintain recommended room temperature for 48 hours after installation. In a clean mixing container, add Super Flex[™] mortar to clean, cool water as specified in the chart.

Size	Water	
50 lbs. (22.68 kg)	41/2 to 6 quarts (4.3-5.7 L)	
25 lbs. (11.34 kg)	21/2 to 3 quarts (2.3-2.8 L)	
9.75 lbs. (4.42 kg)	28-37 fl. oz. (0.83-1.09 L)	

Add powder to liquid for ease of mixing. Mix material to a thick creamy consistency. Avoid breathing dust and contact with eyes and skin. Allow the mortar to stand for 10 minutes. Remix and apply. Avoid using high speed mixing, not to exceed 300 rpm, to prevent entraining air.

Application

Apply mortar using flat side of trowel to promote better substrate contact, then comb in one direction with the notched side of the trowel. Spread only an area that can be tiled while surface is still tacky (typically 20-30 minutes). Press tiles into setting bed, then push in a direction perpendicular to the notched trowel ridges to achieve optimum coverage. Apply mortar in a heavy enough layer so that complete contact (no voids) between mortar and tile is accomplished when tile is positioned. It may be necessary to "back-butter" large tiles to achieve complete coverage and firm support. Periodically remove and check a tile to assure proper coverage. Keep a minimum of $\frac{2}{3}$ of the joint depth between tiles for grouting. Open time and tile hand adjustability may vary with job site conditions. Stir occasionally during use to maintain the smooth, creamy consistency of the product. **Do not add additional water.**

Clean-up

Clean tools, hands, and excess materials from face of tile, while mortar is still fresh, with warm soapy water.

Grouting/Curing

Grouting may be accomplished when tiles are held firmly in place, typically 16 to 24 hours after installation is completed. No traffic is permitted over the tiles prior to grouting. Cold temperatures or high humidity may extend curing time, working time, and pot life. Hot temperatures or low humidity may decrease curing time, working time, and pot life. Unglazed tiles may require sealing prior to grouting so discolorations will not occur. The use of TEC brand grouts is highly recommended.

6. AVAILABILITY

TEC premium surface preparation, tile, stone, carpet, wood and resilient floor covering installation products are available nationwide. To locate TEC products in your area, please contact:

Phone: 800-832-9002 Website: tecspecialty.com

7. LIMITED WARRANTY

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8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical and safety literature

To acquire technical and safety literature, please visit our website at tecspecialty.com.

10. FILING SYSTEM

Division 9

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Conforms with LEED v4 low emitting interiors. Compliant with (CDPH) Standard Method v1.2 VOC Emissions.

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Multipurpose Primer

Updated December 2023

1. PRODUCT NAME

TEC[®] Multipurpose Primer (560)

2. MANUFACTURER

H.B. Fuller Construction Products Inc. 1105 South Frontenac Street Aurora, IL 60504-6451 U.S.A. 800.552.6225 Office 800.832.9023 Technical Support 800.952.2368 Fax tecspecialty.com

3. DESCRIPTION

TEC Multipurpose Primer is an acrylic latex based primer for use with TEC brand self-leveling underlayments. It may also be used to enable the bonding of other TEC brand surface preparation products and polymer-modified mortars to difficult substrates such as metal, glazed ceramic tile, gypsum-based underlayments and concrete treated with certain types of curing compounds (silicate or acrylic resin curing compounds only) and well bonded epoxy coatings. Use to prime resin and metal backings on natural stone and install with polymer-modified mortar instead of epoxy mortar. For peel and stick tile installation, primer can be used on dry, porous concrete, gypsum cement underlayments and plywood. May also be used to promote bond over cold-rolled steel substrates.

Key Features and Benefits

- Multipurpose primer for all approved porous and non-porous substrates
- Easy to apply with brush or roller for non-porous surfaces, or push broom for porous surfaces
- Enables installation of ceramic tile or natural stone directly to metal, gypsumbased underlayments, glazed tile (without scarifying) and well bonded epoxy coatings
- Contributes to LEED® project points
- Solvent-free
- Low VOC

Packaging

Product #15035739
Product #15035740
Product #15035737
Product #15035735

Coverage

Coverages shown are approximate. Actual coverages may vary according to substrate conditions and thickness of applications.

Substrates	Primer to	Coverage Rates in square feet (m ²)		
Substitutes	Water Ratio	Quart	Gallon	5 Gallon
Porous concrete (two coats may be required for highly porous substrates)*	1:3	102.5 (9.5)	410 (38.1)	2050 (190.5)
Gypsum-based underlayments (two coats required, ratios 1:4 and 1:2)	1:4 / 1:2	102.5 / 82.5 (9.5 / 7.7)	410 / 330 (38.1 / 30.7)	2050 / 1650 (190.5 / 153.3)
Plywood	3:1	62.5 (5.8)	250 (23.2)	1250 (116.1)
Vinyl Tile Peel & Stick Applications	1:1	82.5 (7.6)	330 (30.6)	1650 (153)
Non-porous surfaces	Full Strength	75 (7.0)	300 (27.9)	1500 (139.4)

* Second coat is required if initial application is rapidly absorbed and dries in less than 1 hour. For second coat, primer to water ratio is 1:2.

Suitable Substrates

Suitable for use over the following clean, dry, structurally sound and unpainted surfaces: concrete, cementitious backer units (CBU or cement board), exterior grade plywood, oriented strand board (OSB), adhesive residue (except tacky or pressure-sensitive adhesive), cold-rolled steel, existing VCT, LVT or non-cushioned sheet goods if they are single layer only and well bonded to a substrate approved for flooring, gypsumbased substrates — minimum tensile bond strength 72 psi (0.5 MPa). For specific recommendations on other substrates, please contact your TEC representative.

Substrate Preparation

Remove all surface contaminates such as oil, grease, floor finishes, wax and dirt. Remove adhesive by scraping until all that remains is a thin, transparent layer of adhesive residue*. Minimum tensile bond strength of 72 psi (0.5 MPa) is required. For detailed substrate preparation information, refer to appropriate surface preparation product data sheet.

Concrete curing compounds: for use over concrete treated with silicate or acrylic resin curing compounds only. For silicate types, remove all residual salts. Install sample test areas to evaluate bond strength. Samples must achieve minimum 72 psi tensile bond strength. Petroleum based or wax emulsions and dissipating curing compounds are unacceptable and must be removed by mechanical means such as shot blasting.

*Cutback Adhesive Residue (non-asbestos) – Application over asphalt-based cutback adhesive residue is acceptable provided it is a thin layer and is well bonded. Subfloor preparation of the existing cutback adhesive requires only that the ridges or high spots be knocked off, typically with 1-3 passes of a mechanical scraper. NOTE: Mechanical removal of cutback by sanding, grinding or blasting can be hazardous since old cutback adhesive may contain asbestos. Harmful dust may result. Inhalation of asbestos dust may cause asbestosis or other serious bodily harm. Consult all applicable government agencies for rules and regulations concerning the removal of floorings and adhesives that contain asbestos. Tacky or pressure-sensitive adhesive must be mechanically removed by a method such as shot blasting.

Storage

DO NOT FREEZE. TEC Multipurpose Primer must be stored in an unopened container in a cool, dry location out of direct sunlight and protected from weather.

Shelf Life

Maximum of 1 year from date of manufacture in unopened package.

Limitations

- Do not apply over wet areas.
- Do not use in areas subject to hydrostatic pressure.
- Not for use as a wear surface.

Cautions

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

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4. TECHNICAL DATA

Physical Properties

TEC Multipurpose Primer (560)	
Description	
Physical State	Arylic emulsion
Open Time	Varies with temperature and humidity
Color	White, dries clear
Odor	Nil
Viscosity	Thin, liquid

Description	
Wt. per U.S. Gallon	8.8 lbs. \pm 0.1 lb.
Wt. per Liter	1.06 kg ± 0.01 kg
Freeze/Thaw Stability	None. Do not freeze.
Storage	DO NOT FREEZE. Store in cool, dry location. Do not expose to nor store in direct sunlight. Do not store open containers.
Shelf Life	Maximum 1 year from date of manufacture in unopened package.

5. INSTALLATION INSTRUCTIONS

Mixing

For best results, room and product should be kept at 50° to 70°F (10° to 21°C) for 24 hours before, during and 48 hours after application. Mix TEC Multipurpose Primer with clean, potable water in the ratios listed in the coverage chart.

Application

Use a brush or short nap roller for non-porous surfaces or a soft push broom for porous surfaces to apply an even, continuous film. Do not allow product to puddle.

Curing

TEC Multipurpose Primer typically dries in 30 minutes to 3 hours **under ideal ambient conditions.** When the TEC Multipurpose Primer is cured it is transparent in color as opposed to a milky-white color when fresh. Cure times are based on 70°F (21°C) and 50% RH. Colder temperatures and higher humidity will extend cure times. To ensure product is fully dried, apply water droplet to surface and rub with fingertip. When water remains clear, product is fully dried. If water turns milky white, product is not dry. Repeat every 30 minutes until water remains clear. Avoid excessive foot traffic and surface contamination.

Clean-up

Clean tools, hands and excess material immediately (while still fresh) with water. Material that is cured is difficult or impossible to remove.

6. AVAILABILITY

TEC premium surface preparation, tile, stone, carpet, wood and resilient floor covering installation products are available nationwide. To locate TEC products in your area, please contact:

Phone: 800-832-9002 Website: tecspecialty.com

7. LIMITED WARRANTY

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8. MAINTENANCE

Not applicable



Technical and safety literature

To acquire technical and safety literature, please visit our website at tecspecialty.com.

10. FILING SYSTEM

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