

1. PRODUCT NAME

ProSpec® Level Set® Epoxy Primer

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

ProSpec® Level Set® Epoxy Primer is fast setting, two-component 100% solids, moisture tolerant primer for the installation of ProSpec® Level Set® Underlayments and Wear Toppings and can be used as a general primer. Epoxy Primer has been specifically formulated to accept a sand broadcast to work as a general purpose primer.

Features and Benefits

- Simple 1 to 1 mix volume
- Fast setting ready to apply over in 3-4 hours
- Self-priming, requiring no additional primers
- Required primer for decorative concrete applications of Level Set® Wear Topping or where dynamic loads are expected
- 100% solids, low VOC
- Single application
- Same day installation of Level Set® Underlayments or Wear Topping
- Interior/exterior
- Reduces pin-holes from out gassing of concrete.
- Reduces cracking in underlayments and toppings
- Meets and exceeds ASTM C881 Type III (exception an improved gel time)

Uses

For use over:

- Concrete
- Ceramic tile
- Quarry tile
- Terrazzo
- Steel
- Epoxy

Note: All Level Set® products must be used in conjunction with a Level Set® primer. See individual product data sheets.

SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS Sheets are available on our website prospec.com or contact Medical Emergency Phone Number (24 Hours): 1-888-853-1758, Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300 or contact ProSpec® Technical Services at 800-832-9023 (7:00AM to 5:00PM M-F, Central US Time).

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 ProSpec® 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

Mixing Ratio	Component A/B	1:1 by volume
Color	Part A- Amber Yellow / Part B - Black	
Consistency	Pourable liquid	
Open Time	60 min	
Drying Time	3 to 4 hours	
Viscosity (Mixed)	RV-2, 30 rpm	1,000 to 1500 cP
Gel Time	ASTM C-881 (60g)	15 to 30 min
Tensile Strength	ASTM D-638 Type 1, 7d	2500 - 5000 psi (17-34 MPa)
Elongation at break	ASTM D-638 Type 1, 7d	30 - 80%
Water Absorption	ASTM D-570, 7d	0.4%
Bond Strength	ASTM C-882, 2d / moist cure Plastic concrete to hardened concrete	>1,600 psi (11 MPa)

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤

Test results obtained under controlled laboratory conditions, 75°F (24°C) and 50% RH. Reasonable variations can occur due to atmospheric and jobsite conditions.

VOC

9 g/L

LEED® Eligibility¹

Regional Materials (MR-c5)
Low-Emitting Materials (IEQ-c4.2)

Packaging

2 gal kit - Product #65510324
Part A: 1 gal (3.8 L)
Part B: 1 gal (3.8 L)

Shelf Life

12 months from the date of manufacture when stored in the original, unopened container, away from moisture, under cool, dry conditions and out of direct sunlight.

5. INSTALLATION

Preparation

All materials should be stored at 55°F (15°C) to 80°F (27°C) 24 hours prior to installation.

Perform moisture testing for moisture vapor emissions rate (MVER) per ASTM F-1869 (calcium chloride) and/or F-2170 relative humidity test (RH) of the substrate. If the MVER is greater than 5 lb. / 1000 sq. ft. / 24 hr. and/or the RH greater than 75% or the MVER and RH exceed the coating or finished floor covering manufacture recommendations, use ProSpec® Moisture Guard Max as the moisture mitigation system.

- All substrates must be free from liquids or standing water to ensure full penetration.
- Surface temperature must be a minimum of 5° above the dew point temperature and not have hydrostatic pressure at the time of application.
- Remove any deleterious materials, laitance, asphalt, dirt, grease, paint, curing or sealing compounds, and any other contaminants that will inhibit the bond and/or proper penetration of the Level Set® Epoxy Primer.
- Do not use acid etching, chemicals, or solvents for preparing or cleaning the substrate.
- Remove all loose material by vacuuming to result in a dust-free surface before installation of ProSpec® products, brooms shall not be used. Substrates must be structurally sound and completely clean prior to installation.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

CONCRETE:

- Test the surface for direct tensile strength per ASTM C-1583 prior to installation. The pull-out value must be \geq 175 psi (1.2 MPa).
- Substrate must be porous. All smooth concrete surfaces such as hard troweled concrete and precast panels must have an open coarse texture to increase penetration.
- The concrete surface must be mechanically profiled by shot blasting, sand blasting or scarifying to achieve an ICRI CSP 3 to CSP 5 standard. Remove any remaining shot using a walk behind magnetic sweeper.

NON-POROUS:

- Well bonded non-porous substrates consist of the following; epoxy, terrazzo, and ceramic and quarry tiles.
- Prepare the surface via mechanical means removing all loose material. Vacuum thoroughly, removing all dust and other loose contaminants.

METAL:

- Structurally sound and deflection free metal surfaces, such as steel, must be profiled by abrasive blasting to a white metal finish (4 mil (0.1mm) minimum anchor profile).
- If oil is present on the surface the reuse of shot blast or sand blast media is not recommended to avoid re-contaminating the prepared surface.
- If flash rust appears, the surface must be re-blasted to obtain the minimum anchor profile. Apply the primer within 1 hour after preparation and before flash rusting.
- Remove the residue by wiping down the metal substrate with Xylene or Acetone.

Preparation (cont.)

NON-MOVING CRACKS and JOINTS:

- Non-moving cracks and joints must be repaired prior to the installation of the Level Set® Epoxy Primer.
- Mechanically prepare and slightly overcut cracks to ensure a clean and sound crack or joint. Completely remove all contaminants prior to installation.
- Can be used neat in opening less than 1/8" (3mm) wide. For larger cracks, 1/8" - 1/4" (3-6 mm), mix 5 lb (2.3 kg) of ProSpec® Feather Edge with 48 oz (1.4 L) of Level Set® Epoxy Primer.
- Contact ProSpec® Technical Services for repairing cracks larger than 1/4" (6 mm).

MOVING CRACKS and JOINTS:

- Do not use Level Set® Epoxy Primer to repair cracks and/or joints that are subjected to movement.
- All moving cracks and joints must be honored through all installed systems.

Job Mockups

The manufacturer requires that when its ProSpec® products are used in any application or as part of any system that includes other manufacturers' products, the contractor and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use in accordance with pertinent and accepted industry standards prior to any construction. Written documentation of the tests performed shall be satisfactory to the design professional and contractor. Test results must include the means and methods of application, products used, project-specific conditions being addressed, and standardized tests performed for each proposed system or variation.

Mixing

1. Do not mix more material than can be applied in 25-30 minutes. (Note: High temperatures will reduce the working time.)
2. For easier mixing and application, before using, allow Level Set Epoxy Primer to acclimate to room temperature of 65°F - 75°F (18°C - 24°C) for a minimum of 24 hours.
3. The mixing ratio is 1 part A to 1 part B by volume.
4. Remove Part A, white pail, and Part B, black pail, from the outer shipping carton. Add Part B (black) to a clean, dry, 5 gallon mixing pail, scraping the sides to remove all material.
5. Pour Part A (yellow) into Part B (black) (1:1) scraping the sides to ensure all of Part A has transferred into the Part B.
6. Mix with a jiffy (paint) style mixing paddle and a low speed mixer (< 400 rpm).
7. Scrape the sides and corners of the mixing pail to incorporate any unmixed material. Continue mixing until a smooth, homogeneous mixture is achieved; typically 2 to 3 minutes total mixing time.
8. Avoid over mixing as this will incorporate air into the mixture.
9. Immediately, after thorough mixing, pour the entire contents from the mixing container material onto the substrate and spread to the specified thickness. Do not apply Level Set® Epoxy Primer to the substrate from the mixing container.

Application

- Apply when the air and substrate temperatures are between 55°F to 90°F (15°C to 32°C). For applications outside this range of temperatures, contact ProSpec® Technical Services.
- Apply a smooth wet 8 to 10 mil even coating over the substrate using a flat squeegee followed by a 3/8" nap roller (Level Set® Epoxy Primer can also be applied with a nylon paint brush for hard to reach areas).
- Apply at a coverage rate of 150 - 200 ft²/gal (3.6 - 4.9 m²/L) depending on the surface profile.
- While the epoxy is still fresh (within 30 minutes), broadcast dry sand to refusal (#20 - #35 sand). Typically 2/3 to 1 lb / ft² (3.3 to 4.9 kg/m²) is required. Ensure that sand is broadcast evenly, leaving no areas of un-sanded epoxy.
- After 4 hours or just before Level Set® Underlayment or Wear Topping installation, remove all loose sand by sweeping and vacuuming the surface.
- Install Level Set® Underlayment or Wear Topping in accordance with the published Technical Data Sheets.

Coverage

Squeegee followed by 3/8" nap roller / 150 - 200 ft²/gal (3.6 - 4.9 m²/L).

Cleaning

- Clean tools immediately and before cured using xylene or MEK following all handling and safety precautions listed on the xylene container. Be sure to use rubber gloves when cleaning and have plenty of ventilation.

Note: Cured Level Set® Epoxy Primer can be removed only by mechanical abrasion.

Polishing of Level Set® Wear Topping

- Level Set® Epoxy Primer is required for use as a primer for Level Set® Wear Topping that is to be polished.
- Contact ProSpec® Technical Services for further information.

Limitations

- Do not apply if the substrate has a compressive strength less than 2,500 psi (17.2 MPa) and tensile bond strength of less than 175 psi (1.2 MPa).
- Do not apply on any surface that is not clean and solid.
- Do not apply to any substrate, cracks or voids that are subject to movement. For the repair of moving cracks, determine the treatment procedure using a consultant or engineer.
- Do not acid etch to prepare the surface.
- Do not apply to portland-based concrete or patches that have cured less than 28 days.
- Do not apply to calcium aluminate-based toppings that have cured less than 24 hours.
- Do not apply over gypsum-based substrates or gypsum-based patching compounds.
- Do not apply onto surfaces that have been treated with a concrete sealer unless removed by mechanical means.
- Do not apply onto surfaces that have free standing water (wet) or when the surface temperature is < 5° of the dew point temperature.
- Do not use as a wear surface.
- Do not use as a floor leveling product.

6. AVAILABILITY

To locate ProSpec® products in your area, please contact:
Phone: 800-832-9002
Website: prospec.com

7. WARRANTY

For warranty details, see your sales associate or prospec.com

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the Technical Support Hotline.
Toll Free: 800-832-9023
Fax: 630-952-1235

Technical and safety literature

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

10. FILING SYSTEM

Division 3

¹ ProSpec® products can contribute to LEED® credits within the Material Resource, (Recycled Content & Regional Materials) and Indoor Environmental Quality (Low Emitting Materials).

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Data Sheets are subject to change
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check our website at prospec.com



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