

TechPrime E 100%-Solids Epoxy Primer

1 Product Name

TechPrime E 100%-Solids Epoxy Primer

2 Manufacturer

Custom Building Products
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3 Product Description

TechPrime E is a low-viscosity, two-component, 100%-solids epoxy primer for surface preparation before installing an appropriate Custom® or CustomTech™ underlayment. TechPrime E is used to prepare concrete and nonporous substrates for underlayment installation. It penetrates the surface and makes for easy installation. TechPrime E seals and improves that bond of the leveling system.

Suitable Substrates

- Fully (28 days) Cured Concrete
- Epoxy Coating
- Metal
- Existing Ceramic Tile

Composition of Product

Epoxy Resin and Hardener

Benefits of Product in the Installation

- Use for Interior and Exterior application
- Low viscosity, 100% Solids Epoxy Formula
- Low odor and VOC compliant.
- Tenacious bond strength of cured system

Limitations to the Product

- TechPrime E should not be installed at temperatures below 50°F (10°C) or above 90°F (32°C).
- Concrete tensile strength must be greater than 200 psi (1.4 N/mm²)
- MVER of concrete must be less than 3 lbs/day/1000 sq ft (ASTM F1869) or 75% rh (ASTM F2170).
- Substrate must be free of bond-inhibiting or bond-breaking materials; such as curing compounds, oil, grease, wax.
- Repair all cracks with Custom Tech Silk or Custom Tech GenPatch before installation of TechPrime E.
- Honor all expansion and control joints, through primer and underlayment.



4 Technical Data

Technical Chart

Test	Method	Typical Result
Viscosity at 25°C	CBP SOP 089	550 cP
Work Time at 25°C		30 min
Walkable at 25°C		6 hours
Color		Part A: Clear Part B: Transparent amber
VOC's	AQMD Method 304	62g/l

5 Instructions

General Surface Prep

All surfaces must be structurally sound, clean, dry and free from contaminants that would prevent a good bond. Concrete must be fully cured 28 days and have a tensile strength in excess of 200 psi (1.4 N/mm²). Concrete surfaces should accept water penetration. Concrete surfaces must be mechanically profiled and prepared by shot blasting or other approved methods (reference ICRI CSP 3 standards for acceptable profile height). Do not use acid etching for surface preparation. Wait 12 hours after mechanical preparation before applying TechPrime E to allow gases to escape substrate.

Concrete must be tested for moisture and vapor transmission before coating.

Existing ceramic tile must be well bonded and the surface must be mechanically abraded.

Well-bonded, existing epoxy coatings should always be mechanically roughened before application of primer.

Metal surfaces must be prepared by abrasive blasting. Metal surfaces must be wiped clean with suitable solvent.

Relative humidity and dew point must be known before application to avoid adhesion failures. The dew point is used to predict the substrate temperature at which air begins to condense, in the form of water, on the substrate. Never apply a coating unless the concrete surface temperature is at least 5°F (2°C) above the dew point.



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Movement Joint Placement

Expansion joints and cold joints should never be bridged with underlayment. They must be brought through the underlayment and filled with an appropriate elastomeric sealant, such as Custom's® 100% Silicone Caulk. Contact Custom's® Technical Services for the proper treatment of control or saw cut joints.

Mixing Procedures

TechPrime E is a two component system. Both components (liquids A and B) should be at 70-90°F (21-32°C) prior to mixing. Pour the hardener (Component B) into the resin (Component A) and blend thoroughly using a mixing paddle and slow speed hand drill for 3 minutes. Do not mix at speeds greater than 850 rpm to avoid air entrainment. Do not mix more material than can be used within 30 minutes (working time will be reduced at higher temperatures).

Application of Product

Immediately empty the entire content of mixing container on floor. TechPrime E can be applied by notched squeegee and back roll with short nap roller. Finished coat should be 8-10 mils thick. Make sure that there are no voids or pinholes in the coating. While this coat is still in a fresh state (maximum 30 minutes), broadcast fine, oven dried, graded 30 mesh sand to rejection (generally 1 lb/sq ft) over the entire area. When broadcasting the sand, use a NIOSH- approved dust mask. Do not stand or walk on the freshly applied epoxy when broadcasting the sand. Once the sand broadcast is complete, avoid all traffic over the surface for a minimum of 6 hours.

Curing of Product

After 16 hours, broom sweep and vacuum the surface to remove all loose sand. The clean, prepared surface of the sand is now ready to accept Tech Level Underlayment; no additional priming is required. If the underlayment will not be installed immediately, protect its surface from construction traffic, dirt and debris. Install Tech Level Underlayment in accordance with the printed instructions.

Cleaning of equipment

Clean equipment before material cures. Cured material can only be removed mechanically.

Health Precautions

Avoid breathing of vapors. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators and forced exhaust are recommended for confined areas, or when conditions may cause high concentration of vapors. Hazardous vapors are released when the epoxy is burned. Avoid skin and eye contact. Wash skin with soap and water if contact occurs. If eye contact occurs flush with water for 15 minutes and obtain medical attention. Read and understand all cautions on label and MSDS before using this material.

Conformance to Building Codes

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

6 Availability & Cost

Location	Item Code	Size	Package
USA/Canada	TECHE	3 gal (11.36 L)	Kit

7 Product Warranty

Custom® Building Products warrants to the original consumer purchaser that its product shall be free from defects in material and workmanship under normal and proper usage for a period of one year following the date of original purchase. Custom's® sole liability under this warranty shall be limited to the replacement of the product. Some states, countries or territories do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty will not extend to any product which has been modified in any way or which has not been used in accordance with Custom's® printed instructions. Custom® makes no other warranties either expressed or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state or from one country/territory to another. For details and complete warranty information, visit the [CUSTOM warranty page](#).

8 Product Maintenance

Properly installed product requires no special maintenance.

9 Technical Services Information

For technical assistance, contact Custom Building Products.

10 Filing System

Additional product information is available from the manufacturer upon request.

Related Products

CustomTech™ TechLevel™ 150 Self-Leveling Underlayment

CustomTech™ TechLevel™ XP-1™ Self-Leveling Underlayment



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TechPrime E 100%-Solids Epoxy Primer

Coverage

Unit Size	Coverage per unit
3 Gal	450-600 Sq Ft

