TechPrime™ E 100%-Solids Epoxy Primer



1. Product Name

TechPrime™ E 100%-Solids Epoxy Primer

2. Product Description

TechPrime E is a low-viscosity, two-component, 100%-solids epoxy primer for surface preparation before installing an appropriate CustomTech™ underlayment. TechPrime E can be used over concrete and nonporous substrates for underlayment installation, as it penetrates the surface and makes for easy installation. TechPrime E seals and improves that bond of the leveling system.

For professional use only.

Key Features

- For use over non-porous surfaces
- Excellent performance over concrete
- Solvent-free
- Low viscosity formula

Suitable Substrates

- Absorbent concrete
- Non-absorbent concrete
- Lightweight concrete
- Existing ceramic tile
- Epoxy & cement terrazzo
- Exterior grade plywood
- OSB
- Cutback adhesive residue
- Resilient flooring
- Approved moisture control membrane
- Prepared metal substrates and metal decking

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 and wax.
- Repair all dormant or non-moving cracks with Silk or TechPatch RP before installation of TechPrime E as a primer.
- Honor all expansion and control joints, through primer and underlayment.

3. Technical Data

Applicable Standards

- Concrete Floor Preparation for Resilient Flooring, ASTM F710
- ASTM C1708 Standard Test Methods for Self-leveling Mortars Containing Hydraulic Cements

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	SCAQMD Method 304	16.16 g/l

Environmental Consideration

Custom® Building Products is committed to environmental responsibility in both products produced and in manufacturing practices. Use of this product may contribute towards LEED® certification.

4. Instructions

General Surface Prep

USE CHEMICAL-RESISTANT GLOVES, such as nitrile, when handling product.

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). Do not use acid etching for surface preparation. Vacuum surface and take care to remove all dust that has been ground into the porosity of the substrate. All substrates must be structurally sound, surface-dry (without surface condensation), solid and stable. Ensure all old adhesives, contaminants, curing compounds, bond breakers, oils, silicates, dust and sealers are completely removed. 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. Do not install over floors with MVER of concrete more than 3 lbs/day/1000 sq ft (ASTM F1869) or 75% RH (ASTM F2170). 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.

Movement Joint Placement

Expansion joints and cold joints, as described in ANSI A108.01, should be carried from the substrate up through the tile or flooring surface and filled with an appropriate elastomeric sealant, such as Custom's® Commercial 100% Silicone Sealant . For the proper

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treatment of control or saw cut joints and cracks for flooring, refer to ASTM F710. For tile installations, refer to TCNA Details EJ171, F125 & F125A. Contact Custom Technical Services for additional information.

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.

5. Size & Availability

Location	Item Code	Size	Package
USA/Canada	TECHEK	2.7 gal (10.22 L)	Pail

6. 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.

7. Product Maintenance

Properly installed product requires no special maintenance.

8. Technical Services Information

For technical assistance, contact Custom Building Products.

9. Filing System

Additional product information is available from the manufacturer upon request.

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Coverage Chart

Unit Size	Min Coverage	Max Coverage
2.7 Gal	450 Sq Ft	600 Sq Ft