



STARBOND® EP-300

Epoxy based high modulus primer

(Compliance ASTM C881)

Product Data Sheet

Description

It is a 100% reactive, two-component epoxy system consisting of an epoxy resin and amine type hardener. It is designed as a moisture insensitive adhesive and binder for numerous application needs and available in low viscosity and high modulus.

Uses

- Sealing porous concrete
- Coating and Priming
- Binder in epoxy mortars
- General Adhesive
- Crack Injection
- Anchoring
- Joint repair material

Advantages

- High compressive and tensile strength
- Highly resistant to aggressive chemicals
- Corrosion and abrasion resistant
- Can withstand operating temperature from -30°C to 100°C(dry heat)
- Universal adhesive for bonding together concrete, wood, ceramic and steel materials
- Bond fresh concrete topping to hardened concrete slab waterproof.
- Supplied pre-weighed quantities.
- May be extended with sand or aggregate for thick applications and mortar repairs.

Technical Information

(Tested under laboratory condition @ 25°C)

Gel Time (ASTM C881-90)	- 40 Minutes
Bond Strength (14 Days) (ASTM C882)	- >2000 psi
Water Absorption (ASTM D570)	- < 0.15%
Shore D Hardness (durometer) (ASTM D2240)	- 70 – 75
Compressive Modulus of Elasticity (ASTM D638)	- 1.3×10^6 psi

Instruction of use Surface preparation

Surface must be structurally sound, clean and free from dust, oil, grease, curing compounds, concrete laitance and other loose debris. Surface should be fairly rough. New concrete must be 28 days old and possess an open, porous and all surface treated curing agents and sealers should remove.

Recommended methods for preparing concrete are by sandblasting, water jet, acid etching, grinding, wire brushing, or by pneumatic chipping tools. All free-standing water must be removed and substrate allowed to completely dry. In general, the surface preparation and application methods recommended in our method statement should be followed.

Mixing

All materials should be in the temperature range between 16°C to 32°C. Pour the Part-B (Hardener) to Part-A, mix for 2-3 minutes using a drill fitted with jiffy mixer.

Priming

For priming use lint free roller, brush, airless spray, or by squeegee at the rate of 9 - 11 sq.m. Per liter. Primer should be tacky before applying epoxy mortar. Do not apply coating or epoxy mortar over hardened primer.

Sealing

Sealing pores and non-pores areas, use LV applied by roller, airless spray, or squeegee at the rate of 9 -11 square meters per liter. A second application may be needed for extremely porous areas.

Steel Priming

Completely to dry prior to application of top coat



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Cleaning

For cleaning tools and equipment, use Star Solvent.

To be avoided

- Do not apply STARPRIME EP-300 on unprepared surfaces.
- Do not apply over hardened primer or old epoxy without proper surface preparation.
- Do not blend with solvents unless otherwise recommended by us in writing

Packing & coverage

Available in 1 Gal. Kit (other packs upon request)

Coverage: 9-11 m² per Liter.

Shelf Life and Storage

One year shelf life in original unopened packing, stored under cover, out of direct sunlight and protect from extremes of temperature.

Health & Safety

Always use protective clothing, eye goggles, and face mask and rubber hand gloves when handling this product. Avoid contact with the skin or eyes. If spilled on the skin, wash immediately with soap and plenty of water. Accidental splashes on the eyes should be immediately cleaned with water and medical attention sought.

Refer to material data sheet and further information.