

Product Data Sheet



STARBOND EP-300

Two Component, Versatile, Epoxy based Primer and Sealer – Available High Build and Low Viscosity

Uses:

- Universal primer for Epoxy Flooring and Sealant Applications.
- Sealing and Hardening of Porous Concrete
- Penetrating Sealer
- Priming of joint edges to receive urethane, epoxy, polyurea-based sealants

Product Description

STARBOND EP-300 is a two component versatile epoxy resin based primer for the STARBOND Epoxy Product range. Purpose is the application on concrete and cementitious substrates to seal the surface and enhance bonding properties with various materials. This product can be used as a seal coat to harden cementitious surfaces and prevent dusting or as Surface Preparation = Priming.

Advantages

- Application by brush, roller or spray equipment
- Versatile applications – Primer for various coatings and sealants.
- Universal adhesive for bonding together concrete, wood, ceramic and steel materials
- Designed to seal and harden highly porous surfaces
- Perfect for use with epoxy, urethane screeds and self leveling products.
- Very commercial attractive solution, suitable for use in MENA region climatic conditions
- May be mixed with sand or aggregate for thick applications and mortar repairs.

Standard Compliance

- ASTM D 4258
- ASTM D 4259

Technical Properties

STARBOND EP-300	Typical Values @ Laboratory Conditions
Available colors	Standard Clear – Yellowish Color (Others upon request)
Pot Life	80-120 min
Application Thickness	100 - 150 microns
Mixed Density	~1.0 Kg / Liter
Adhesion Bond to Concrete	Higher than host concrete cohesive strength.
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 * 106psi



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Application

Surface Preparation

The surface should be clean, dry, sound and free from oil, grease and wax contamination. Cement laitance, loose particles, mould release agent or curing membranes must be removed.

Fill surfaces irregularities with a suitable repair product.

Concrete substrates should be at least 28 days old, and the moisture content should be 5% or below.

Application

Mix **STARBOND EP-300** as supplied. Add the entire content of hardener and resin and mix thoroughly for about 2 minutes.

Once mixed, apply **STARBOND EP-300** immediately in a thin continuous film using stiff brushes, spray equipment or rollers. Over application to be avoided – Puddles, non absorbed material can have an effect on Bonding strength.

Apply the second coat perpendicular to the first coat at the same rate above and allow it to cure.

Allow **STARBOND EP-300** to become tack-free before applying epoxy coating (unless otherwise specified) but well within the open time specified for the given temperature.

Cleaning

Remove **STARBOND EP-300** product from tools, equipment, and mixers with STAR Solvent before the initial set. Cured material can only be removed mechanically.

Packing & Coverage

Product	Pack Size	Theoretical Coverage
STARBOND EP-300	15 ltr kit	9 - 11 m ² per Liter/Coat

(Custom Packing is available based on request.)

Stated consumption data are for general guidance. Actual consumption depends on the nature of substrate, method of application, and wastage.

Shelf Life & Storage

The original sealed container of **STARBOND EP-300** and has a shelf life of 12 months, provided it is stored clear of ground in a dry, shaded place below 35°C.

Limitations:

- **STARBOND EP-300** should not be applied at ambient temperatures below 5°C and dropping.
- **STARBOND EP-300** should not be applied on surfaces expected to suffer from rising dampness or relative humidity greater than 75%.
- If any doubts arise concerning application or substrate conditions, consult the STAR Technical Department.

Health & Safety

STARBOND EP-300 contains an epoxy resins that can be harmful to the skin. During use, avoid contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection, and respiratory protective equipment. The use of barrier cream provides additional skin protection. In case of skin contact, rinse with plenty of clean water, cleanse with soap and water. In case of contact with the eye, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately – do not induce vomiting.

For complete Health and Safety instructions and information, please refer to STAR MSDS.



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Additional Information

STAR manufactures a wide range of construction chemicals and specialty products for various applications divided into the following product sections:

1. **Waterproofing Products**
2. **Sealants, Grouts, and Joint Fillers**
3. **Adhesives**
4. **HVAC – Adhesives, Coatings & Sealants**
5. **Flooring Products**
6. **Industrial Adhesives (i.e. Paper Industry)**
7. **Accessories**

STAR Technology provides various technical information such as detailed method statements, specification clauses, application manuals and technical support both in contractors and consultant's offices as well as construction sites.

For further information on these products and systems kindly visit our website or contact your local STAR representative.