



Product Data Sheet

	STARBOND EPC 600 Two Component, Solvent Free, High Performance, High Build Epoxy Flooring System
	Uses: <ul style="list-style-type: none">Heavy duty concrete floor coating in industrial and commercial plants such as warehouses, service stations, chemical plants, metal treatment plants, internal car parking decks.Wet working areas subject to chemical spillageMachinery service areasRust preventing coating for steel and concrete tanks.Coating on steel exposed to abrasion

Product Description

STARBOND EPC 600 is a two component, solvent-free, epoxy resin self-smoothening chemical resistant floor coating system. It has excellent adhesion qualities, chemical resistant, glossy finish and it can be cleaned with no effort. **STARBOND EPC 600** is designed for use in wide range of industrial environments where lasting flooring required. It provides a dense, impervious, colored and chemically resistant floor surface which is hygienic and easy to clean.

Advantages	Technical Properties																						
<ul style="list-style-type: none">Application by brush, roller or spray equipment & Fast application = Minimum Down timeExcellent wear under heavy trafficHigh flow characteristics combined with an attractive self-smoothening finish.Chemically resistant - good resistance to a wide range of chemicalsExcellent resistance to Water Vapor TransmissionHygienic - provides a dense, impervious, seamless floor surface which is easily cleanedAttractive - available in a wide range of colors to enhance the working environmentThe applied product will be resistant to water as well as a wide range of chemicals.	<table border="1"><thead><tr><th>STARBOND EPC 600</th><th>Typical Values @ Laboratory Conditions</th></tr></thead><tbody><tr><td>Physical Appearance</td><td>Free Flowing Liquid</td></tr><tr><td>Available colors</td><td>Multiple colors upon request</td></tr><tr><td>Pot Life, min</td><td>30 – 40</td></tr><tr><td>Solid Content, %</td><td>100</td></tr><tr><td>Application Thickness, micron</td><td>400 to 500 (2 coats)</td></tr><tr><td>Compressive Strength, mPa (BS 6319)</td><td>> 70</td></tr><tr><td>Flexural Strength, mPa (BS 6319)</td><td>> 40</td></tr><tr><td>Tensile Strength, mPa (BS 6319)</td><td>> 20</td></tr><tr><td>Bond Strength (14 Days), mPa (BS 6319)</td><td>> 2.5</td></tr><tr><td>Shore D Hardness (durometer) (ASTM D2240)</td><td>80</td></tr></tbody></table>	STARBOND EPC 600	Typical Values @ Laboratory Conditions	Physical Appearance	Free Flowing Liquid	Available colors	Multiple colors upon request	Pot Life, min	30 – 40	Solid Content, %	100	Application Thickness, micron	400 to 500 (2 coats)	Compressive Strength, mPa (BS 6319)	> 70	Flexural Strength, mPa (BS 6319)	> 40	Tensile Strength, mPa (BS 6319)	> 20	Bond Strength (14 Days), mPa (BS 6319)	> 2.5	Shore D Hardness (durometer) (ASTM D2240)	80
STARBOND EPC 600	Typical Values @ Laboratory Conditions																						
Physical Appearance	Free Flowing Liquid																						
Available colors	Multiple colors upon request																						
Pot Life, min	30 – 40																						
Solid Content, %	100																						
Application Thickness, micron	400 to 500 (2 coats)																						
Compressive Strength, mPa (BS 6319)	> 70																						
Flexural Strength, mPa (BS 6319)	> 40																						
Tensile Strength, mPa (BS 6319)	> 20																						
Bond Strength (14 Days), mPa (BS 6319)	> 2.5																						
Shore D Hardness (durometer) (ASTM D2240)	80																						

Standard Compliance

- ASTM C 722
- ASTM F 3010



Product Data Sheet

Chemical Resistance

Hydrochloric acid, 30%	Excellent
Nitric acid, 20%	Good
Acetic acid, 10%	Good
Sulfuric acid, 40%	Excellent
Sodium hydroxide, 50%	Excellent
Kerosene	Excellent
Ketones	Poor
Alcohol	Good
Petrol	Excellent

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.

Priming

Once the surface preparation is complete the concrete should be primed with **STARBOND EPP-100SF**. The primer should be brushed into the surface using a stiff brush, broom or roller & allowed to dry (minimum 12 – 16 Hours) before the application of **STARBOND EPC 600**. In case of extremely porous substrate, two coats of primer are recommended. Allow the first coat to dry before applying the subsequent coat. The primer coat needs to be allowed to dry completely before laying **STARBOND EPC 600**.

Application

Mix **STARBOND EPC 600** as supplied. Add the entire content of hardener and resin and mix thoroughly for 2 to 3 minutes using a slow speed mixer.

Once mixed, apply **STARBOND EPC 600** immediately in a thin continuous film @ 200 micron/coat. Using Rollers or gauged squeegees – Continuous Coating Film must be achieved. Over application to be avoided – Puddles, non absorbed material can have an effect on the finished product.

The base coat should be allowed to dry for min. 2 – 24 h. Then apply the second coat perpendicular to the first coat at the same rate and allow it to cure.

Anti-Slip Aggregate

In the event of antislip silica aggregate specification, the base coat should be covered with antislip aggregate as soon as possible after laying the base coat.

The recommended procedure is to cover the base coat completely, but can also be in a light random pattern.

The top coat can now be applied by roller or airless spray equipment. Ensure a continuous film and to seal the aggregate surface. Apply the topcoat within 36 hours considering 20°C (15 hours at 35°C).

Cleaning

Remove **STARBOND EPC 600** 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 EPC 600	15 Kg kit	5 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 EPC 600** 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 EPC 600** should not be applied at ambient temperatures below 5°C and dropping.
- **STARBOND EPC 600** 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.



Product Data Sheet

Health & Safety

STARBOND EP 600 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.

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.