Product Data Sheet

STARBOND EPR Putty 700

Two Component, Multi-Purpose, Epoxy Putty

Uses:

- Repair of concrete surface pores, blemishes at a feather edge thickness.
- Repair of Surface Cracks and Levelling of surfaces prior to the applications of STAR coatings and floor toppings
- Anchoring Bolts, Re-Bar clowelling,

Product Description

STARBOND EPR Putty 700 is a two component room temperature setting, easy to use multi-purpose putty. It is useful in surface preparation, sealing, gripping, joining a variety of surfaces like concrete, ferrous and non-ferrous metals, porcelain, ceramic, marble, granite, ivory, asbestos, glass, wood, etc. On curing exhibits tough & long lasting bond and sets into a hard mass that can be drilled, led, tapped, machined, cut and then painted. It has very good electrical insulating properties and the cured product is resistant to moisture, heat, mild acids & alkali.

Advantages

- Fast & Easy Application - Minimum Down time
- Excellent wear undr heavy traffic
- Chemically resistant - good resistance to a wide range of chemicals
- Compatible with most substrate and topping materials
- The applied product will be resistant to water as well as a wide range of chemicals.
- Bonds tenaciously to become an integral part of the floor
- Application from 0 to 3 mm in a single layer

Standard Compliance

- ASTM C579
- ASTM D2369
- ASTM C 881 Type 1, Grade 3 Classes B & C

Technical Properties

STARBOND EPR Putty 700	Typical Values @ Laboratory Conditions
Physical Appearance	Thixotropic Paste
Color	Grey
Volume of Solids	100%
Fresh Mixed Density	Approximately 1.7 kg/ltr
Compressive Strength, mPa (ASTM C579)	65
Tensile Strength, mPa (ASTM C579)	12
Flexural Strength, mPa (BS 6319, Pt3)	20 MPa
Bond Strength, mPa	> 2 (Concrete Failure)
Pot life, min	60
Tack free time, h	8
Full cure, days	7

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Chemical Resistance

Chemicals	Concentration, %	Result
Tartaric acid	10	Excellent
Hydrochloric acid	10	Excellent
Sodium hydroxide	10	Excellent
Diesel fuel/petrol		Excellent
Sulphuric acid	10	Good
Sugar solutions	10	Excellent
Lactic acid	10	Excellent
Hydrocarbons	10	Excellent
Phosphoric acid	10	Good
Seawater		Excellent
Sewerage		Excellent
Mineral, vegetable animal Oils and Fats		Excellent
Ammonia		Excellent
Formaldehyde		Excellent
Nitric acid	10	Good
Acetic acid	10	Limited

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.

Laitance and weak surface layer shall be removed using mechanical methods such as grinding or blasting to provide a sound, well-profiled surface. Repair all necessary areas before application by using epoxy mortar from the STAR range.

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

Application

Mix **STARBOND EPR Putty 700** as supplied. Add the entire content of hardener and resin and mix thoroughly for about 3 minutes using a slow speed mixer.

Once mixed, apply **STARBOND EPR Putty 700** immediately.

Concrete & patch repairs, apply **STARBOND EPR Putty 700** to the surface and finish it to levels. Aid a smooth surface by wetting the trowel sparingly with STAR Solvent.

Apply **STARBOND EPR Putty 700E** to cracks or inaccessible areas using a sealant gun.

Curing

Allow **STARBOND EPR Putty 700** to cure for 24 hours before being subjected to foot traffic. Full mechanical and chemical properties are achieved after 7 days

Cleaning

Remove **STARBOND EPR Putty 700** 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 Yield
STARBOND EPR Putty 70	3 Kg kit	1.75 ltr (1.7kg/mm/m²)

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 EPR Putty 700** and has a shelf life of 12 months, provided it is stored clear of ground in a dry, shaded place below 35ºC.

Limitations:

- **STARBOND EPR Putty 700** should not be applied at ambient temperatures below 5°C and dropping.
- **STARBOND EPR Putty 700** 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 EPR Putty 700 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.	