

Description:

TechnoFloor® EP is a two-component, low viscous epoxy primer specially designed to seal the porosity of the substrate thus providing a homogeneous and adherent surface to various epoxy coating systems. It improves the resistance of concrete to chemicals, adhesion and soil humidity and daily abrasion, and reduces its absorption of water and salt.

Application Includes:

Priming and sealing concrete substrates before application of TechnoFloor® flooring systems for following areas:

- Indoor car parks
- Bridge decks
- Industrial floors
- Food industry floors
- Warehouses
- Service stations
- Chemical plants
- Metal treatment plants
- Machinery service areas

Features:

- Very good adhesion to the substrate
- Low viscosity- Easily seals the pores in concrete
- Good penetration- Gives good bond to concrete
- Resistant to dilute alkalis, acids, aqueous salt solution and lubrications.
- Resistant to corrosion.
- Easy to apply- Apply by brush, roller or squeegee

Method of Application**Surface preparation**

It is essential that TechnoFloor® EP is applied to sound, clean and dry surfaces in order that maximum bond strength is achieved between the substrate and the flooring system. All dust and debris should be removed prior to application of the product or its primer.

New concrete, or cementitious substrates, should be at least 28 days old and have a moisture content not exceeding 5%. Laitance deposits on new concrete are best removed by light grit blasting, mechanical scrubbing or grinding. Existing concrete floors which require refurbishment must be prepared to ensure a strong adhesive bond between the flooring system and the existing floor.

Mechanical cleaning methods are strongly recommended particularly where heavy contamination by oil and grease has occurred or existing coatings are present. To ensure adhesion, all contamination should be removed. Proprietary chemical degreaser may be used on small areas of light contamination only. Steel surfaces should be degreased and grit blasted to SA2½ immediately prior to application.

Floor Joints & Cracks

Large cracks and damaged areas should be repaired with TechnoSeal® EPA 1500 repair materials and leveled off. All existing expansion joints, movement joints are to be brought over through subsequent flooring system & to be treated with suitable sealants. Joint sealant & joint geometry should be compatible with the floor type used, intended exposure conditions and likely movement characteristics of the substrate. All other stable joints (dummy joints, etc.) are to be filled up prior to lay the topping as per the designed thickness. Joints should be cleaned, prepared as per specification & filled with suitable joint filling material. Consult technical team for detailed specification in case of other type of joints.

Mixing & Application

Pour all of TechnoFloor® EP Part B into the TechnoFloor® EP Part A can and mix with a slow speed mixer (300-600 RPM) until homogenous. Placing Apply the TechnoFloor® EP to the prepared concrete floor using a brush, roller or squeegee. If the primer may be left for more than 24 hours broadcast lightly with sand. Substrates should be between 15°C and 35°C and the material between 10°C and 30°C.

Typical Properties at 25°C:

Form	Liquid
Colour	Pale Amber
Mixing Ratio (Pack A : Pack B)	2 : 1 (by weight)
Specific Gravity	1.05 + 0.02
Pot Life	Approx.60 mins @ 25°C Approx.45 mins @ 35°C
Tack Free time	4 – 6 hours @ 25°C
Overcoating times @25°C	6-8 hours (minimum) 24 Hours (maximum)
Direct tensile strength (ASTM D4541)	>2Mpa (concrete Failure)
Application temperature	5°C - 45°C
Thickness of dry film	40-55 microns
Thickness of wet film	80-100 microns
Theoretical Coverage	5-8 m ² /Kg/Ltr/Coat at 80-100 microns wet film thickness

Note: The coverage figures given are theoretical-due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced. Typically, an additional 10% should be allowed for surface irregularities and wastage although this will vary with site conditions.

Health and Safety instructions

TechnoFloor® EP and TechnoFix® CleanzolPlus should not come in contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water.

Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately- do not induce vomiting.

Product only for professional use.

Additional Information: Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd - The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

DISCLAIMER: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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Please note that this datasheet supersedes all previous versions.

Packaging

TechnoFloor® EP is supplied in 6 kg, 24 Kg & 30 kg pre-weighted kit size.

Cleaning

All tools and equipments should be cleaned immediately with TechnoFix® CleanzolPlus -Epoxy cleaner solvent after application on using fresh water. Hardened materials must be cleaned mechanically.

Shelf Life

Shelf life is 24 months from the date of manufacturing. Store in a cool & dry place in unopened condition.

Watch Points & Limitations

Higher temperatures shorten the pot life. Lower temperatures increase the pot life and curing time. Material consumption also increases at lower temperatures. The bond between the individual coats can be heavily impeded through the influence of dampness or contamination between the applied coats. Due to some reason, if waiting times between different coats increases or if the surface applied with liquid resin is left unattended for long time then the surface must be well cleaned and abraded before the next coat.

Protect surface protective systems from moisture (e.g. rain, melt water) for approx. 4-6 hours after application. Dampness produces a white discoloration and/or stickiness on the surface and can impede the cure. Discolored and/or sticky surfaces should be taken off e.g., by abrading and renewed. Cured product residues are to be disposed of under waste disposal classification 57123 "Epoxy Resin".

Storage

Store in dry conditions between 5°C and 30°C, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperatures the shelf life will be reduced.

Fire

TechnoFix® CleanzolPlus and TechnoFloor® EP are flammable. Keep away from sources of ignition. No smoking in the event of fire extinguish with CO2 or foam. Do not use a water jet.

Flash Points:

TechnoFloor® EP- 24°C

TechnoFix® CleanzolPlus- 33°C

For further information, refer to the Product Material Safety Data Sheet

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