

Description:

TechnoSeal®EPW is a water dispersible high build epoxy coating system suitable for all applications where concrete or masonry requires protection, primer and finished coats for internal concrete floors and walls where good abrasion and chemical resistance is required.

TechnoSeal®EPW is typically designed to provide a hardwearing and cleanable decorative finish on walls and floors either on its own as a wearing surface or in a 'sandwich' construction between sand and cement renders. TechnoSeal®EPW is supplied in pre-weighed packs ready for on-site mixing and use. It is applied in the same manner as ordinary emulsion paint with the added benefit of application in damp conditions. Once dried TechnoSeal®EPW leaves a tough, nontoxic, easy to clean surface.

Application Includes:

- Floor and wall coating- where a hardwearing and cleanable decorative finish is required.
- Tanking- as part of 'sandwich' construction using sand and cement renders.
- Garages- where a hardwearing and cleanable decorative finish is required.
- Suitable coating for Light industrial and food processing areas.
- Suitable coating for Kitchens and other areas of pedestrian and light vehicular traffic.
- TechnoSeal®EPW is suitable for application to most common building substrates including brick, concrete, stone and renders. Being water dispersible TechnoSeal®EPW can be used on damp surfaces (but not running wet).

Features:

- Antibacterial - Resists bacterial growth.
- Durable- Good resistance to abrasion.
- Economical - Easy to apply, minimises cleaning costs.
- Water based - Safe in use, low odour.
- Attractive - Available in a range of colours.
- Chemicals resistance - Good resistance to a wide range of chemicals.

Packaging

TechnoSeal®EPW supplied in 10 & 20 kg working packs.

Storage

The product should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 3 palletes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palletes should not be placed on top of each other during long term storage. Keep away from any fire hazards or ignition sources.

Typical Properties at 25°C

Pot life	3 hours@25°C and 2 hours @35°C
Time between coats	6-24 hours @25° and 4-16 hours@35°C
Initial hardness	24 hours@25° and 16 hours@25°
Full cure	7 days
Dry film thickness (2 coats)	100 microns (approx.)

Application Method

Preparation

The surfaces to be coated should be sound and free from dust, dirt, oil, grease, bitumen and surface water. Any loose material or latency should be removed by thorough needle gunning, grit blasting or wire brushing. Blow holes or irregularities should be filled using TechnoSeal® EP as a primer and TechFin® Epoxy Repair Mortar. Use TechnoFix® Epoxy Mortar to form a fillet at the floor/wall junction to ensure a smooth transition from vertical to horizontal.

Mixing

Add the resin component to the hardener and mix using a paddle/whisk in a slow speed drill until a consistent mix is achieved, alternatively a flat bar or piece of wood can be used in which case the mixing time should be at least 5 minutes.

Application

General:

- Application can be by brush or roller.
- Apply TechnoSeal®EPW to achieve complete coverage, do not apply too thickly or sagging and runs will occur.
- Apply one coat of TechnoSeal®EP- Primer followed when touch dry by one of two coats TechnoSeal®EPW top coat (two coats are required where heavy wear is expected).

Brickwork:

For best results apply a coat of TechnoCrete® URP K10-P followed by 4:1 sand: cement render (sharp sand) to the prepared brickwork. When cured the render can be coated with TechnoSeal®EP- Primer and TechnoSeal®EPW Topcoat as above.

Tanking:

When using TechnoSeal®EPW as a tanking membrane (floors and walls combined) it is essential that an overlap of coats occurs at the wall to floor junction. A fillet as described earlier should be formed at the floor to wall junction. Overlaps of TechnoSeal®EPW should extend 225mm beyond the fillet e.g. When coating floors the coating should be applied over the fillet and 225mm up the wall.

Shelf Life

The shelf life is 12 months from the date of production under suitable storage conditions. Opened packages should be stored under suitable storage conditions and used within 1 week.

Health and Safety instructions

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Precautions Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. Store all materials and equipment safely and out of reach of children and animals.

Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area.

Cautions & Important Watch Points

The reaction and workability times of resin based systems depend on the ambient and substrate temperatures as well as the relative humidity. Under lower temperatures, the chemical reaction times are prolonged and this increases the pot life, coating interval and the working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and the above mentioned times decrease accordingly. For the material to be cured properly, the ambient and the substrate temperatures should not fall below the specified limits.

TechnoSeal®EPW as ready-to-use kits. No solvent etc. should be added during application. The empty packs should be consolidated and disposed properly in order to prevent reusing of the packages. Epoxy and polyurethane based floor coatings should be applied by specialists Applicators.

The materials to be used at the appropriate temperatures should be brought and stored in the application area 1-2 days prior to the application and enabled to adjust the ambient conditions. In extremely cold conditions, heaters should be used to increase the ambient and the workability of the product, the packages should be preconditioned to +20°C - +25°C to become ready to use.

After the application, the material should be protected from direct contact with water for 24 hours minimum. Within this period, a contact with water may cause a surface carbonation and/or tackiness; both of which will cause the coating to lose its characteristics. In such cases, the overall coating should be removed from the floor and renewed.

Permissible relative humidity 40%-90%.

Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +10°C.

Finishing:

For walls that are to receive render finishes, the last coat of Triton TechnoSeal®EPW should be blinded with dry builders' sand whilst the coating is still tacky. When the coating has fully set the render can be applied. Alternatively a priming coat consisting of TechnoCrete® URP K10 M mixed with cement and brushed onto the cured TechnoSeal®EPW will form a key for a subsequent render finish.

Note: TechnoSeal®EP Primer and TechnoSeal®EPW Top coat will become tack free more quickly if there is a good flow of air over coated surfaces. In confined and /or cold spaces the coatings will take longer to dry. Thick applications of unpigmented TechnoSeal®EP Primer and TechnoSeal®EPW Topcoat between floor tiles or in mortar joints may retain a creamy appearance rather than clarify. If the appearance is important apply the coating thinly and build up the layer over extra coats, do not allow the coating to form into pools.

Coverage

Application rate is approx. 9-10.00 m² /litre @ 100 microns wft/coat. The coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced

Cleaning of Tools and equipments

Used tools and equipment must be cleaned carefully with an appropriate solvent like TechnoPur® Eco Cleaner. Once cured TechnoSeal®EPW can only be removed by mechanically.

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.

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.

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