

## TechnoCoat<sup>®</sup> ZR Special

Two component, Zinc-Rich Anticorrosive And Protective Epoxy Primer.

### Description:

TechnoCoat<sup>®</sup> ZR Special is a formulated two component Zinc Rich Anticorrosive epoxy primer for ferrous metal surfaces to provide far better performance over other primers by cathodic protection to the base metal. TechnoCoat<sup>®</sup> ZR Special is recommended both for new steel and also for old & corroded steel in concrete repair & rehabilitation applications.

TechnoCoat<sup>®</sup> ZR Special is compatible and can be over coated with a wide range of high performance corrosion resistant finish coatings based on epoxy, chlorinated rubber, polyurethanes etc.,

### Application Includes:

TechnoCoat<sup>®</sup> ZR Special is suitable for application as a priming coat on structural steel, for the repair of pipelines, tank exteriors, bridges, frame structures, also on concrete surface etc. of refineries, petrochemicals, fertilizers, paper mills, power generation plants, mining facilities and bulk handling equipment.

### Features & Benefits:

- Excellent adhesion: Exhibits excellent bond strength in cementitious repairs.
- Anti-corrosive: Active 'Zinc-rich' system combats corrosion by electro chemical means.
- Two component product: Easy to mix and use.
- Fast installation: Touch dry after 30 to 45 mins

### Low temperature working

The minimum application temperature is 10°C. The material should not be applied when the substrate and/or air temperature is 10°C and below.

### Design Criteria

One or two coats of TechnoCoat<sup>®</sup> ZR Special are generally required, dependent largely on the nature and profile of the substrate. TechnoCoat<sup>®</sup> ZR Special is recoatable generally between 45 minutes and one hour after the application of first coat. Application of top coat may also proceed at this time. At elevated temperatures, the recoatable and overlay times will be reduced. The minimum application temperature for TechnoCoat<sup>®</sup> ZR Special is 10°C.

### Applications Instructions:

#### Substrate Preparation

Iron and steel surfaces must be free from rust, scale, oil, dust, grease and other impurities which can prevent adhesion. The best pre treatment is sand blasting. Alternatively mechanical wire brushing can also be carried out. TechnoCoat<sup>®</sup> ZR Special coat should be applied immediately after the removal of rust and other impurities.

#### Mixing

Component A and component B of **TechnoCoat<sup>®</sup> ZR Special** are supplied in correct mix ratios. Component B should be poured into Component A. Care must be taken that the component B is completely emptied from its containers. Both components are mixed in the correct ratio of 3:1 by weight for about 2 – 3 minutes and even consistency is achieved.

#### Typical Properties at 25°C

<b>Type</b>	Two pack, cold cure	<b>Application thickness</b>	100 microns (wet) per coat
<b>Appearance after mixing</b>	Metallic Grey	<b>Mixed density</b>	2.3 kg/litre
<b>Mixing Ratio</b>	A : B	<b>Specific gravity</b>	1.70±0.02
<b>Application</b>	Brush/Roller, Conventional Spray & Airless Spray	<b>Pot Life</b>	45 mins @25°C 15 mins@40°C
<b>Mixing Ratio, Base: Catalyst, by weight</b>	8.5: 1.5	<b>Touch dry</b>	15 mins@40°C
<b>Recommended Thickness per coat</b>	40 microns (DFT)	<b>Fully dry/Recoatable</b>	45 minutes to 1 hour.
<b>No of coats recommended</b>	2	<b>*Coverage on Steel</b>	4-5 sq.m /kg/coat

\*All technical data stated herein is based on tests carried out under laboratory conditions.

Note: This coverage figure is theoretical - due to wastage factors, variety and nature of possible steel substrates, the practical coverage figures may be reduced.

#### Application:

- Allow 5–10 minutes for maturation, and then apply by brush or roller.
- The application of **TechnoCoat<sup>®</sup> ZR Special** must take place as soon as possible to a dry steel surface after completion of the preparation work but always within 3 hours. One full and unbroken coat of **TechnoCoat<sup>®</sup> ZR Special** shall be applied using a suitable brush making sure the surfaces of the steel are properly coated.
- A small brush is generally suitable for this purpose. It shall be allowed to dry fully before continuing. If in doubt of having achieved an unbroken coating, a second application should be made as soon as the first coat is fully dry (generally between 45 minutes and one hour) The primed surfaces should not be left exposed to the elements for longer than necessary before over coating.
- **TechnoCoat<sup>®</sup> ZR Special** will, however, protect steel under clean interior exposed conditions for a period of several months. In non-aggressive

## Technical Support:

Sterling Technotrade offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer onsite technical assistance and dedicated specification assistance for the specific projects and locations.

## Cleaning

Tools and equipments should be cleaned within the pot life of the grout with **TechnoFix® Eco Cleaner**. Cured material can only be removed mechanically.

## Packaging

TechnoCoat® ZR Special is supplied in in 40 Kg premeasured packaged composite Dual pack consisting 34 kg pack A+ 6 Kg Pack B packing. Packaging size may vary subject to local regulations and requirements.

## Shelf Life & Storage

12 months from date of production if kept in undamaged and unopened original sealed containers and store at protected area from direct sunshine in dry and cool condition at temperatures between 10°C-30°C.

## Limitations

TechnoCoat®ZR Special should not be applied when the temperature is below 10°C. If any doubts arise concerning temperature or application conditions, the STIPL technical representative shall be contacted.

**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.

exterior environments, a maximum interval of 14 days will be tolerated but in industrial and/or marine environments this interval should be reduced to the practical minimum.

- The application of concrete repair materials should proceed as soon as the **TechnoCoat® ZR Special** is fully dry (generally 45 mins. to 1 hour - Refer properties).

## Health and Safety instructions

Some people are sensitive to resins so gloves and a barrier cream should be used when handling TechnoCoat® ZR Special. If contact with the resin occurs, it must be removed, before it hardens, with a resin removing cream. Follow by washing with soap and water. Do not use solvent. The use of goggles is recommended but should accidental eye contamination occur, wash thoroughly with plenty of water and seek medical treatment immediately.

Ensure adequate ventilation in volume and pattern in working area and do not smoke during use. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. 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.

\*Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

Product only for professional use.

**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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