Talrakote® ZE

Two component, epoxy based zinc rich primer

The Construction Alchemists

Description

Talrakote® ZE is supplied as a two component system based on metallic zinc and epoxy resin which on mixing gives a grey coloured liquid, which can be used as coating for steel in construction systems.

Features & Benefits

- Anti corrosive - Active 'Zinc-rich' system combats corrosion by electro chemical means
- Two component product - easy to mix and use
- Time saving - Touch dry after 15 mins
- Excellent adhesion - Exhibits excellent bond strength with cementitious repair mortar / microconcrete

Primary Application

Talrakote® ZE is recommended for priming exposed steel reinforcement due to corrosion. The product actively resists corrosion within the confines of the repair location and avoids the generation of incipient anodes in immediately adjacent locations. Talrakote® ZE is compatible with all microconcretes and rendering cement repair mortars.

Technical properties

Zinc content	90%
Pot life (mixed material)	60 - 90 minutes
Specific Gravity	1.75
Thickness per coat	50micron (DFT) max.
Application Thickness	100 micron (WFT/Coat)
Touch dry of applied coating	15 minutes
Fully dry / Re-coatable	45 - 60 minutes

Design Criteria

One or two coats of Talrakote® ZE are generally required, dependent largely on the surface profile of steel reinforcement. Talrakote® ZE is re-coatable generally between 30 minutes and one hour after the application of first coat. Application of top coat may also proceed at this time. At elevated temperatures, the re-coatable and overlay times will be reduced. The minimum application temperature is 10°C. Talrak office may be consulted for further information.

Specification Clause

The steel reinforcement primer shall be Talrakote® ZE an epoxy, zinc rich, two component, coating pre-packed and supplied as a two component. An unbroken 50 microns thick coating shall be capable of providing 'active' galvanic protection and avoiding the generation of incipient anodes in the immediately adjacent locations. It shall be of suitable viscosity to enable the coating to penetrate into imperfections and pits within the surface of the steel sections.

The formulation of the primer shall be such that drying occurs to allow the application of the repair mortar after 45 minutes at 35°C or after 1 hour at 20°C. It shall be fully compatible with the reinstatement methods adopted.

Application instructions

Preparation

Any corroded steel shall be fully exposed and all loose scale and corrosion deposits shall be removed. Steel should be cleaned to a bright condition paying particular attention to the back of exposed steel bars. Grit-blasting is recommended for this process.

Where corrosion has occurred due to the presence of chlorides, the steel should be high-pressure washed with clean water immediately after grit-blasting to remove corrosion products from pits and imperfections within its surface.

Mixing

Both components shall be mixed until a homogenous mixture is obtained. It is important that both components are intermixed thoroughly and no traces of the components remain unmixed. A slow speed drill fitted with a paddle is recommended for mixing.

Application

The application of Talrakote® ZE 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 Talrakote® ZE 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 30 minutes and one hour). It should be noted that there should not be any holidays in the coated film.

The primed surfaces should not be left exposed to the elements for longer than necessary before over-coating. Talrakote® ZE will, however, protect steel under clean interior exposed conditions for a period of several months. In non-aggressive 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 repair materials should proceed as soon as the Talrakote® ZE is fully dry (generally 45 minutes to 1 hour - Refer properties).

Limitations

Talrakote® ZE should not be applied when the temperature is below 10°C. If any doubts arise concerning temperature or application conditions, the local Talrak office shall be contacted.

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Cleaning

Talrakote® ZE should be removed from tools, equipment and mixers with cleaning Solution immediately after use.

Estimating
Packaging

Talrakote® ZE is supplied in 0.5liter and 1liter combo pack.

Coverage

Talrakote® ZE : 4 - 5 m^2 / litre
Note : This coverage figure is theoretical - due to wastage factors, variety and nature of possible steel substrates, the practical coverage figures may be reduced.

Storage

Talrakote® ZE has a shelf life of 12 months if kept in dry store in original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions
Health & Safety Instructions

Contact with the skin should be avoided In such cases if contact with the resin occurs, the skin should be washed immediately with soap and water-not solvent. Gloves and barrier creams should be used when handling these products. Eye contamination must be immediately washed with plenty of water and medical treatment sought.

Talrak Construction Chemicals Pvt. Ltd.
An ISO 9001:2015 Certified Company

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