

### TWO COMPONENT EPOXY BASED ZINC RICH PRIMER FOR STEEL

#### Description

EPCOAT ZINC is a two component, solvent borne zinc rich epoxy primer, providing active galvanic protection to steel. It is a thick grey liquid of paint-like consistency, recommended for use where chloride induced attack on steel is likely.

#### Uses

- As a protective coating to steel reinforcing bars in concrete.
- As a touch-up primer for damaged galvanised metal.
- As a primer for steel substrates prior to suitable top coating.

#### Advantages

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

#### Characteristics

Mixed density :  $2 \pm 0.3$  kg/litre  
Recommended thickness: per coat 40 microns (DFT)  
Application thickness : 100 microns (wet) per coat  
Touch dry : 45 mins @ 20°C and  
15 min @ 35°C  
Fully dry/Recoatible : 45 minutes to 1 hour.  
Surface drying time : @ 27°C 20 to 40 mins.  
**Note** : At temperatures below 20°C, the drying Times will be slower. Conversely, at temperatures above 35°C, the drying times will be faster.

#### Standards

EPCOAT ZINC is formulated to meet the scope of BS 4652, Type 2.

#### Specification Clause

EPCOAT ZINC is a two component, zinc rich epoxy primer. It shall be formulated to meet the requirement of BS 4652 Type 2. The primer shall be an active type having zinc content of greater than 90% in dry film state which is capable of negating

the generation of incipient anodes in the areas surrounding the repairs. The product shall have mix density in the range of  $2 \pm 0.3$  kg/litre.

#### Direction for Use

##### Surface Preparation

The steel surfaces should be grit blasted or wire brushed to remove all traces of corrosion. Ensure no oil, grease or dust is present. Surfaces should be dry.

##### Mixing

Stir each component of EPCOAT ZINC. Add Hardener to Base and mix using a drilling machine fitted with a mixer.

##### Application

Apply EPCOAT ZINC immediately after completion of preparation to prevent any contamination. Do not leave blasted or prepared steel uncoated. Brush the EPCOAT ZINC onto the prepared substrate, ensuring uniform and full coverage, particularly on the back face of reinforcement. In case of doubt on achieving continuous film in one coat apply second coat immediately after the drying of the first coat. Please consult FCSC representative for advising the numbers of coats necessary. Repair mortars can be applied as soon as the EPCOAT ZINC is dry. EPCOAT ZINC is not designed as a finished coating. Although protection to the steel will be provided for some time, overcoating should be carried out as soon as possible, particularly in aggressive environments.

##### Equipment Care

Tools should be cleaned with SOLVO immediately after use.

##### Curing

Although EPCOAT ZINC is self-curing, it will cure slowly at low temperatures. The reaction stops at below 5°C.

##### 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.

### TWO COMPONENT EPOXY BASED ZINC RICH PRIMER FOR STEEL

#### Packaging

EPCOAT ZINC is available in 1 kg & 5kg units consisting of base and hardener.

#### Coverage

6 - 8 m<sup>2</sup> / litre dependent on substrate profile.

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 & Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above. Depending on storage conditions, the shelf life may be greater than stated. Please contact our local representative regarding suitability for use and dosage recommendations if the shelf life of EPCOAT ZINC.

#### Safety Precautions

EPCOAT ZINC does not fall into the hazard classifications. However, it should not be swallowed or allowed to come into contact with the skin and eyes.

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with the eyes it shall be rinsed immediately with plenty of water and medical advice sought immediately. If swallowed, medical attention shall be sought immediately - Vomiting should not be induced.

#### Note

All Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact our local FIRST CHOICE SPECIALITY CHEMICALS PRIVATE LIMITED representative.

#### Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.