

# CONCRESlVE® ZRi

Two component epoxy based zinc rich primer for steel

## Description

CONCRESlVE ZRi 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

- Provides positive protection of steel components against corrosion.
- Excellent adhesion to steel.
- Short overcoating time.

## Typical properties

Aspect	: Thick grey suspension
Mixed density	: 2.4 ± 0.1 kg/litre
Volume Solids, %	: 57 ± 3
Mixing Ratio, by volume	: 4(B) : 1(H)
Pot Life	: 120 Minutes at 25°C
Tack free time	: 25 Minutes at 25°C
	: 10 Minutes at 40°C
Recoat time	: 6-8 Hours at 25°C
	: 2-4 Hours at 40°C
Total zinc content in dry film	: >84% by weight
D.F.T. per coat	: > 50 microns
Application temperature	: minimum 10°C
	: maximum 40°C

## Standards

- CONCRESlVE ZRi is formulated to meet the scope of BS 4652, Type 2

## Specification Clause

The primer shall be CONCRESlVE ZRi, a two component, epoxy zinc rich. 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 84% 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 not less than 2.25 kg/litre. It shall be fully compatible with EMACO Range of repair mortars.

## Directions 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 CONCRESlVE ZRi. Add Hardener to Base and mix using a drilling machine fitted with a mixer.

### Application:

Apply CONCRESlVE ZRi immediately after completion of preparation to prevent any contamination. Do not leave blasted or prepared steel uncoated.

Brush the CONCRESlVE ZRi 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 BASF representative for advising the numbers of coats necessary. Repair mortars can be applied as soon as the CONCRESlVE ZRi is dry.

CONCRESlVE ZRi 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 CLEANING SOLVENT NO. 2 immediately after use.

### Coverage

Each 1 litre pack can cover 8 - 10 m<sup>2</sup>/coat on smooth substrates. On rebar approximate coverage shall be as under:

Diameter of rebar (in mm)	Coverage Running meter/litre/coat
8	210 ~ 265
12	140 ~ 175
16	105 ~ 135
25	85 ~ 115
32	55 ~ 65

### Packaging

CONCRESlVE ZRi is a two component system, supplied in 1 litre combined unit.

### Storage and 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 six months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult BASF's Technical Services Department.

### Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

### Note

All BASF 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 your local BASF 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.

TDS Ref. no. :CcrxxZRI/05/1211

#### BASF India Limited

#### Construction Chemicals Division

Plot No.37, Chandivali Farm Road, Chandivali ,Andheri(East)

Mumbai – 400072 India

Tel: +91 22 28580200, Fax: +91 22 28478381

e-mail: basfcc@vsnl.net [www.basf-cc.co.in](http://www.basf-cc.co.in)

Page 2 of 2

