

# Repcoat ZR

One component epoxy based zinc rich primer for steel



## DESCRIPTION

Repcoat ZR is a one component, epoxy based, zinc rich primer, designed to provide active anti-corrosion coating for steel reinforcement.

## APPLICATIONS

Repcoat ZR is used as protective and anti-corrosion coating for reinforcing steel bars. Repcoat ZR can be used on normal steel and galvanized steel as a primer for rust protection.

## ADVANTAGES

- » Provides a protective coating from corrosion for steel by active electro-chemical means.
- » Easy application, single component.
- » Cost effective, no waste and no pot life limitations.
- » Excellent resistance to salt and chloride attacks.
- » Compatible with all Cempatch Range of concrete repair products from DCP.

## STANDARDS

Repcoat ZR complies with EN 1504-7 for reinforcement corrosion protection requirement principles 11.1 and 11.2.

## METHOD OF USE

### SUBSTRATE PREPARATION

The steel surface must be cleaned from any corrosion deposits and loose scale. It is recommended to use grit blasting for surface preparation. Steel brush can be used for steel cleaning. In all cases the steel should be clean and bright after cleaning.

### MIXING

Stir contents thoroughly before use.

### APPLICATION

Use a small brush to apply Repcoat ZR on the prepared surfaces to achieve a uniform and full coverage. Particular attention should be given to the reinforcement steel back face.

If an unbroken coating was not achieved by using one coat, a second coat should be applied within the over coating time. Application should be carried out as soon as possible after finishing the surface preparation, and in all cases not exceeding 4 hours.

## TECHNICAL PROPERTIES:

Colour:	Grey
Specific gravity:	1.8 ± 0.1
Drying time:	1.5 - 2.0 hr @ 20°C
Tack free time:	35 - 45 min @ 20°C 10 - 15 min @ 35°C
Minimum recoating time:	30 - 60 min @ 20°C 15 - 40 min @ 35°C
Solids by weight: ASTM D2369	70 ± 5%
Dry film thickness:	50 microns/coat
Wet film thickness:	165 microns/coat
VOC:	< 700 g/ltr

Performance characteristics	EN 1504-7 requirement	Measured value
Corrosion protection: EN 15183	1.0 mm	≤ 0.30 mm

### Notes:

- » Repcoat ZR is not designed to be left exposed for extended period of time. Moreover under severe environmental conditions like marine or highly industrial environments, Repcoat ZR is prone to the formation of insoluble white zinc oxide layer which must be removed from the surface before subsequent overcoating.
- » Repcoat ZR should not be applied at temperatures below 5°C or exceeding 45°C.
- » Application of repair material should be carried out as soon as the Repcoat ZR is fully dry.
- » Where corrosion has occurred due to the presence of chlorides, use high pressure water to clean the steel followed by grit blasting.

## PACKAGING

Repcoat ZR is available in 1 and 2.5 litre cans.

## COVERAGE

The coverage rate is 6 m<sup>2</sup>/litre/coat to achieve dry film thickness of 50 microns per coat.



# Repcoat ZR

## STORAGE

Repcoat ZR has a shelf life of 12 months from date of manufacture if stored in dry conditions away from direct sunlight at temperatures between 5°C and 35°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

## CAUTIONS

### HEALTH AND SAFETY

Repcoat ZR should not come in contact with skin and eyes. In case of accidental splashes to the eyes, rinse thoroughly with clean water and seek medical advise. Suitable protective gloves and goggles should be worn.

For further information refer to the Material Safety Data Sheet.

## FIRE

Repcoat ZR and DCP solvent are flammable. Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

### Flash Point:

Repcoat ZR: 23°C.

DCP solvent: 37°C.

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- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

### Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.