

# Repcoat ZR

One component zinc rich anti-corrosion coating



## 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.

Repcoat ZR is compatible with all Cempatch Range of concrete repair products from DCP and fluid micro-concretes.

## 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 principle 11.1.

## 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 or high pressure jetting for surface preparation. Steel brush can be used for steel cleaning. In all cases, the steel should be clean and bright after cleaning paying particular attention to the back of exposed steel bars.

Exposed reinforcement that is contaminated with chloride or other material which may cause corrosion should be waterblasted with high pressure to provide a clean surface and remove the corrosion products.

## MIXING

Stir contents thoroughly to disperse any settlement before use.

## TECHNICAL PROPERTIES:

Colour:	Grey
Specific gravity:	1.85 ± 0.05
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:	70 ± 5%
Dry film thickness:	50 micron/coat
Wet film thickness:	165 micron/coat
VOC: ASTM D2369	< 700 g/ltr

Performance Characteristics	EN 1504-7 Requirement	Measured Value
Corrosion protection: BS EN 15183	1.0 mm	≤ 0.3 mm

## APPLICATION

Use a small brush to apply Repcoat ZR on the prepared surfaces to achieve 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.

The application should be carried out as soon as possible after finishing the surface preparation, and in all cases not exceeding 4 hours.

### Notes:

- » Repcoat ZR is not designed to be left exposed for an extended period of time. Moreover, under severe environmental conditions like marine or highly industrial environments, Repcoat ZR is prone to the formation of an 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.

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# Repcoat ZR

- » *Repcoat ZR was designed to protect steel that is to be covered with concrete. However, Repcoat ZR will be able to protect exposed steel under clean interior exposure conditions for a period of several months. A maximum interval of 14 days will be tolerated in non-aggressive exposure conditions, however, for industrial or marine environments, this period should be decreased to the bare minimum.*
- » *If the 14-day period in an external environment has been exceeded, evaluate the coating for signs of damage and vacuum or use oil-free compressed air to remove any dust. Remove the damaged areas and re-apply Repcoat ZR, lapping the surrounding areas by at least 20mm if the damage is observed.*

## PACKAGING

Repcoat ZR is available in 1 and 2.5 litre cans.

## COVERAGE

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

## STORAGE

Repcoat ZR has a shelf life of 12 months from the 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 advice.

## 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 advice. 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.

## MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

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

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#### 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.

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