

ZINC RICH PRIMER

HIGH PERFORMANCE, ANTI-CORROSIVE PRIMER

An Epoxy Zinc Primer for use in new construction and maintenance. It provides sacrificial protection for exposed steel including steel reinforcement and can be utilised in conjunction with CMCI Concrete Repair Mortars. **ZINC RICH PRIMER** resists corrosion within the steel sections of repair locations.

ADVANTAGES

- Ease of application.
- Compatible for use with all CMCI Repair products.
- Excellent resistance to corrosion by electrical and chemical means.
- Economical

DESCRIPTION

Two part **Zinc Rich**, high performance epoxy primer with more than 90% zinc content in the dry film.

STANDARDS

BS 4652 1995 Specifications for Metallic **Zinc Rich** Priming paint Type 2.

Where corrosion is caused due to chlorides, it is essential that the steel is high pressure washed following the Sand / Grit blasting procedure.

PROPERTIES

Solids	: 85 % w/w
Typical Thickness	: 83-125 microns wet equivalent to 50-75 microns dry.
Theoretical Coverage	: 8.0 -12.0 sq.m/litre (at stated volume solids and 50-75 microns dry film thickness)
Color	: Gray
Dry Temperature	: Continuous 130°C.
Resistance	: Intermittent 200°C.
Adhesion	: 580 psi (4 N/mm ²) ASTM D-4541
Pot Life :	
5°C	- 12 hours
23°C	- 10 hours
33°C	- 6 hours

Drying Time :

Substrate Temp.	- 23°C
Touch Dry	- 30 minutes
Hard Dry	- 1 hour
Substrate Temp.	- 35°C.
Touch Dry	- 20 minutes
Hard Dry	- 30 minutes

PREPARATION

Corroded steel should be cleaned by grit or sand blasting to remove any corrosion deposits present, alternatively the steel should be hand or power wire brushed. New steel should also be abraded to produce a surface profile. Once all scale and corrosion deposits have been eliminated, the application of **Zinc Rich Primer** can proceed.

ABRASIVE BLAST CLEANING

Abrasive blast clean to Sa 2 1/2 [att + 0189] Swedish standards SIS 05 59 00. Surface defects revealed by the blast cleaning process should be ground, filled or treated in the appropriate manner.

APPLICATION

It is recommended that the **Zinc Rich Primer** application should commence when the steel surface is dry, generally, within 3-4 hours after preparation work is completed.

Pour the complete contents of the Hardener container into the Base container and mix the two components thoroughly using a broad bladed scraper or a low speed power mixer.

Airless spray is recommended for application to large areas:

Tip Range 0.43 - 0.53 mm (17- 21 mils)
Total output fluid pressure not less than 176 Bar (2500 psi) Use agitated paint container.

ZINC RICH PRIMER may also be applied by roller to larger areas of steel. Brush application is recommended for treatment of reinforcing steel.

Apply **Zinc Rich Primer** in one full and unbroken coat utilizing suitable sized brush. Ensure that the exposed steel bars are fully coated taking care on the back side of the steel. Allow full curing. Should there

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be any doubt in having achieved an unbroken coating, apply second coat as soon as the first coat is dry, this is normally between 15 minutes and one hour.

The surfaces which have been coated with **Zinc Rich Primer** should not be left exposed longer than necessary. In aggressive environments, the primer coating should be covered with the repair material or subsequent coating as soon as possible.

LIMITATION

ZINC RICH PRIMER will not cure adequately below 5°C. For maximum performance temperatures should be above +10°C.

PACKING

ZiINC RICH PRIMER is available in units of 1 liter and 1 gallon for coating reinforcing steel. Larger units are available on request.

QUALITY STATEMENT

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products. CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product. CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.