



**Chem Coats (Pvt) Ltd.**

# ChemRep ZR Primer

Single-component epoxy zinc primer

## DESCRIPTION

**ChemRep ZR Primer** is a single component liquid epoxy resin, enriched with metallic zinc, offering excellent corrosion protection properties.

## Uses

**ChemRep ZR Primer** is recommended as an anti-corrosion primer for exposed steel reinforcement. **ChemRep ZR Primer** actively resists corrosion in the repair area and avoids the generation of incipient anodes in the adjacent areas.

## Benefits

- zinc enriched, prohibits corrosion through electro-chemical action.
- Provides longevity of repair.
- Single-pack system allows for flexibility during application.
- Easy to apply - touch dry after 30 minutes.
- Exhibits excellent corrosion protection of steel
- Economical - single component ensures almost no waste.

## SURFACE PREPARATION

All metal to be coated must be clean, mechanically sound and dry. Expose all corroded reinforcing steel and grit blast. A clean bright finish is required ensuring that all corrosion products are removed particularly behind the steel. The anchor pattern should be approximately 40 to 60 microns from peak to valley. Prime before flash rusting occurs, normally within 3 hours of cleaning.

## COVERAGE

**ChemRep ZR Primer** will cover 7.0 m<sup>2</sup> per litre. This coverage is theoretical – various points need to be considered, like surface profile i.e. the smoother the surface the greater the coverage will be, and therefore practical coverage rates may vary.

## APPLICATION

Thoroughly stir the product before use in order to redisperse any settlement that may have occurred.

After the preparation of the steel, the application of **ChemRep ZR Primer** must commence as soon as possible.

The reinforcing steel surface is to be dry and the priming must be completed within 3 hours.

Using a suitable brush, apply a single coat of **ChemRep ZR Primer** to the clean, prepared reinforcing steel and allow to dry. Note that this single coat should be continuous and unbroken leaving no open pits or air holes where corrosion could set in.

Should any doubt exists about obtaining a continuous unbroken film; apply a second coat after the first coat has fully dried (generally after 30 minutes). The primed surfaces should not be left exposed to the elements for longer than necessary before application of the repair material.

The application of the repair materials should commence soon after the **ChemRep ZR Primer** has fully dried. Do not leave the primer exposed for more than three days.



## TYPICAL PHYSICAL PROPERTIES

Relative density	1.30 g/cm <sup>3</sup>	
Recommended thickness (dft)/coat	43 microns	
Recommended thickness (wft)/coat	140 microns	
<b>Drying times</b>		
Touch dry	20° C	35° C
	30 mins	20 mins
Fully dry (recoatable)	20° C	35° C
	50 mins	30 mins

## CLEANING

**ChemRep ZR Primer** should be removed from tools and mixing equipment using **Chem Coats super brush cleaner** immediately after use.

## PROTECTION ON COMPLETION

Ensure that all surfaces primed are kept clean and free of contaminants prior to further product applications.

## TEMPERATURE AND RELATIVE HUMIDITY

**ChemRep ZR Primer** should not be applied when the temperature is below +5° C and falling. If any doubt arises concerning temperature or application conditions, consult **Chem Coats** technical department.

## MODEL SPECIFICATION

**Single-pack, zinc-rich epoxy for coating of reinforcing steel prior to concrete repair.**

The steel primer will be **ChemRep ZR**, a single-pack zinc-rich epoxy coating applied in accordance with the recommendations of **Chem Coats Construction Chemicals**. The primer will have drying time of 30 minutes at 20° C and be compatible with the **ChemRep** concrete repair system.



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## PACKAGING

**ChemRep ZR Primer** is supplied in 1 litre & 5 litre metal containers.

## HANDLING & STORAGE

This product has a shelf life of 12 months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

Store in dry conditions in the original containers. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced.

**ChemRep ZR Primer** is flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO<sub>2</sub> for foam. Do not use a water jet.

## HEALTH & SAFETY

Wet **ChemRep ZR Primer** is toxic and flammable. Ensure the working area is well ventilated during application and drying. Avoid flames in vicinity. Always wear gloves when working with the material and avoid excessive inhalation and skin contact.

If material is splashed in the eye, wash with copious quantities of clean water and seek medical attention.

## IMPORTANT NOTE

The information given in this data sheet is based on current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no controls over methods of applications, site conditions etc. In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local **Chem Coat's** representative.

## RANGE OF PRODUCTS

<u>WATERPROOFING SYSTEMS</u> <u>INDUSTRIAL FLOOR SURFACES</u> <u>PROTECTIVE COATINGS</u>	<u>PREPACKED REPAIR MORTARS</u> <u>CEMENTITIOUS &amp; EPOXY GROUTS</u> <u>CONCRETE ADMIXTURES</u>	<u>SEALANTS</u> <u>CRACK INJECTION</u> <u>CONCRETE ADHESIVE</u>
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