

Product Data Sheet
Edition 07.2008
Identification No. P - 3

KEMPRIM ZR1

Active Single Component Epoxy Zinc Primer

Description

KEMPRIM ZR-1 is supplied as a one component grey coloured primer coating based on zinc and epoxy resins.

Where to use

KEMPRIM ZR -1 is the recommended anti-corrosion primer for steel reinforcement in the PROKEM CONCRETE REPAIR SYSTEM.

KEMPRIM ZR-1 actively resists corrosion in the repaired area, and also aids the prevention of corrosion in adjacent areas. KEMPRIM ZR-1 benefits from being a single component material and, therefore, avoids possible errors in mixing. KEMPRIM ZR-1 can also be used as a touch-up primer or for coating high voltage transmission towers, overhead gantries, bridges and structural steelwork.

Advantages

- Single Component System-Easy to use, no problems with pot life.
- Time Saving – Touch dry after 45 minutes and re-coatable after 4 hours.
- Economical – One pack system ensures no site wastage.

Standards

BS 4652:1971 specification for metallic zinc rich priming paint, Type 2.
BS 6920 Pt 1 1988. Complies with requirements of the United Kingdom Water Fittings Bylaws Skeme Tests on Effect on Water Quality.



Properties

Specific Gravity	Typically 2.0
Volume Solids	30%
Pot life at 23°C	30 minutes

	At 23 °C	At 35 °C
Dry to touch	45 minutes	15 minutes
Fully dry	4 hours	2 hours
Re-coatable	4 hours	2 hours

Application temperature: Minimum 5 °C

How to use

Surface Preparation

Corroded reinforcing steel should be exceed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is always preferable to clean the steel to a bright condition. Grit or sand blasting is recommended.

Mixing

KEMPRIM ZR-1 should be stirred before use to re-disperse the heavy zinc surfaces.

Application

KEMPRIM ZR-1 should be brushed onto the exposed reinforcing steel, making sure that the back of the steel is coated also.

If required a second coat may be applied after 4 hours. The primed surfaces should not be exposed to the elements for longer than necessary before overcoating or application of the repair mortar. KEMPRIM ZR-1 will protect steel under clean interior exposure conditions for a period of several months. In non-aggressive conditions a maximum interval of 14 days will be tolerated, but in industrial and/or marine conditions this interval should be reduced to the practical minimum.

The application of concrete repair materials may proceed as soon as the KEMPRIM ZR-1 is fully dry (generally 20 minutes to 1 hours)

Thinning

KEMPRIM ZR-1 is supplied ready to use. However, if necessary a maximum of 5% of PROKEM solvents may be needed.

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**Cleaning**

Tools should be cleaned with PROKEM solvents prior to curing.

Theoretical Coverage

7.5 m²/litre (0.275 kg./m²) for 40 microns D.F.T.

Number of coats: 1-2 depending on application.

Packaging

KEMPRIME ZR-1 is supplied in 1, 5 & 20 Kg. packages

Storage

KEMPRIME ZR-1 has a minimum shelf life of 12 months if stored in a cool dry place in unopened tins.

Health and Safety

- Use gloves to avoid contact with skins.
- If skin comes in contact, wash immediately with soap and water.
- Do not induce vomiting.
- Eye contamination must be immediately washed with water, then seek medical treatment.
- Working areas should be well ventilated.

Additional Information

PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure. PROKEM designs tailor made products when there is critical applications that require specific requirements.

For our customer's satisfaction, PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.