

Kemprim ZR1

Active Single Component Epoxy Zinc Primer

Description	Kemprim ZR1 is supplied as a one component grey Colored primer coating based on zinc and epoxy resins. It complies with BS 4652-1971 Type 2, 6920 PT1.1988
Where to use	• Kemprim ZR1 is the recommended anti-corrosion primer for steel reinforcement in the PROKEM Concrete Repair System • Kemprim ZR1 actively resists corrosion in the repaired area, and also aids the prevention of corrosion in adjacent areas • Kemprim ZR1 benefits from being a single component material and, therefore, avoids possible errors in mixing • Kemprim ZR1 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, with no problems in pot life • Time Saving – Touch dry after 45 minutes and re-coat after 4 hours • Economical – One pack system ensures no site wastage
Properties	
Specific gravity	2.0
Solid content	75 ±1 % by volume
Zinc content	45 ±1 % by volume
Application method	Airless spray, roller or stiffed brush
Tack free time 23 °C	15 min - reduced at higher temperature
Dry to touch @ 23 °C	45 Minutes
Fully dry @ 23 °C	4 Hours
Re-coat time @ 23 °C	4 Hours
Surface Preparation	• Corroded reinforcing steel should be exceeding 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 ZR1 should be stirred before use to re-disperse the heavy zinc surfaces
Application	• Kemprim ZR1 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 over coating or application of the repair mortar • Kemprim ZR1 will protect steel under clean interior exposure conditions for a period of several months • The application of concrete repair materials may proceed as soon as the Kemprim ZR1 is fully dry (generally 20 minutes to 1 hour)
Thinning	• Kemprim ZR1 is supplied ready to use, however, if necessary a maximum of 5% of PROKEM solvents may be needed • Application temperature: Minimum 5 °C
Cleaning	• Tools and equipment's should be cleaned immediately with Prokem solvent
Theoretical coverage	• 0.15 Kg/m² for 60 microns D.F.T • Number of coats: 1 - 2 depending on application

Packaging	Two packs (A+B) 5 Kg Pails 20 Kg Pails
Shelf life & Storage	Kemprim ZR1 has a shelf life of 12 months if kept in their original packaging in a dry condition
Health and Safety	• Use goggles, gloves and a breathing mask when applying • Apply forced ventilation in confined spaces • Remove splashes from skin with hand cleaner or soap and water • Eye splashes to be washed with plenty of water • If ingested seek medical advice
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 should there be critical application that requires specific properties rather than our main range for our customer's satisfaction PROKEM reserves the right to change the properties of its products All orders are accepted subject to our current term of sale & delivery Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products