

Shieldprime ZR1

Single-component, Epoxy Zinc-rich Primer



Description

Shieldprime ZR1 is a single-component, solvent-based, zinc-rich epoxy primer, designed to provide exceptional protection from corrosion in steel and metal substrates.

Uses

- Protection of structural steel in buildings and facades.
- Maintenance of normal steel.
- Industrial and coastal environments.
- Protection of steel substrates before the application of cementitious concrete repairs.
- Maintenance primer for existing steel structures.

Characteristics / Advantages

- Ready to use.
- Easy to apply by brush, roller, or sprayer.
- Compatible with the entire **Shieldrep** concrete repair range.
- Excellent resistance to salt and chloride attacks.
- Provides excellent protection for metal surfaces.
- Cost-effective.

Coverage

Approximately 5.3 m²/L at 75-micron DFT (180-micron WFT).

Packaging

Shieldprime ZR1 is supplied in 1-L tins.

Shelf Life and Storage

Shieldprime ZR1 has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture. Shelf life may be reduced if the recommended storage conditions are not followed.

Typical Properties

Color	Matte Grey
Density	1.90 – 2.20 g/ml
Dry to Touch	20 – 40 minutes
Overcoating Time	2 – 4 hours
Wet Film Thickness	120 – 180 microns
Full Cure	7 days
Solid Content by weight	65 ± 2%
Application Temperature	5 – 40 °C

Application Instructions

1. Surface Preparation

Steel substrates must be dry, clean, and free from dust, oil, grease, rust, loose materials, surface contamination, and any materials that may reduce bond or prevent adhesion. Grit blasting can be used to achieve SA 2½ surface profile. Remove dust before application.

2. Mixing

Shieldprime ZR1 is ready to use; stir thoroughly using a mechanical mixer or paddle until a homogeneous consistency is achieved.

3. Application

Shieldprime ZR1 is applied on the prepared substrates using a brush, roller, or sprayer. A second coat may be required, within the overcoating time, to achieve complete surface coverage.

Regular stirring of the mixture is advised to avoid the settlement of zinc dust/ filler.

4. Cleaning

Clean the tools and any uncured material using a suitable thinner. Hardened material should be removed mechanically.

Safety Instructions

The application should be done in a well-ventilated area with adequate air circulation, away from any heat source and ensure having gloves, eye protection, masks and protective clothing.

This product contains flammable solvents and should be kept away from heat, sparks, open flames, and other sources of ignition.

Avoid contact with the eyes and skin. In case of direct contact with the skin, wash the affected area immediately with water for several minutes. If it comes into contact with the eyes, rinse immediately with lukewarm water for at least 15 minutes and get medical advice or treatment if any emergency warning signs appear.

Dispose of any leftover epoxy and waste materials according to local regulations and guidelines. For further information, refer to the Material Safety Data Sheet.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

Limitations

- Do not apply the product if the ambient temperature is less than 5°C.
- Avoid excessive application thickness, which may lead to debonding.
- If the overcoating period is exceeded, lightly abrade the surface before applying subsequent coats.
- Protect freshly applied coatings from moisture and rain until fully cured.
- Do not apply over wet or damp substrates.
- Not intended for continuous immersion in water or chemicals.
- Use only in well-ventilated areas to prevent the accumulation of solvent vapors.
- Keep containers tightly closed when not in use and store in a cool, dry, well-ventilated location.

Address: Manaseer Group, 8th Circle, King Abdullah II St. 302
P.O. Box 925988 Amman, 11110, Jordan

Phone +962 6 5800600
Fax. +962 6 5833890

Email: info.shield@manaseer-ic.com
Website: www.manaseergroup.com

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