

# CIKOPOXY COAT Z



## Single component zinc rich epoxy primer for steel reinforcement

### Description

CIKOpoxy Coat Z is a fast drying, single component, zinc rich epoxy primer recommended for steel reinforcement as anti-corrosive coating applied to surfaces prepared and cleaned to a minimum degree of SA 2<sup>1/2</sup> according to Swedish Standards.

CIKOpoxy Coat Z is high solid zinc powder blended in epoxy resin which upon drying provides an elastic active protection by sacrificing the zinc powder against corrosion of steel.

CIKOpoxy Coat Z is designed to be used with CIKO wide range of concrete bonding agents and repair products.

### Properties & Advantages

- The active zinc-rich system provides protection to the steel against corrosion.
- Easy to use, single component material having long pot life.
- Fast drying allowing a short over coating time.
- Excellent resistance to salt and chloride attacks.
- Compatible with epoxy, and latex based bonding agents used for concrete repair materials.

### Coverage

2 kg can of CIKOpoxy Coat Z covers 15 m<sup>2</sup> - 15.5 m<sup>2</sup> at 50 microns DFT. Generally, a minimum of 1 coat is required or 2 coats where deemed necessary.

The given coverage figures are theoretical; practical coverages are subject to variation depending on wastage and nature of steel substrate.

### Physical properties

|                                |                            |
|--------------------------------|----------------------------|
| Form                           | Liquid                     |
| Colour                         | Metal Grey                 |
| Specific gravity               | 1.75 ± 0.05 Kg/L           |
| Tack Free Time                 | 20 - 25 minutes @ 25°C     |
|                                | 5 - 10 minutes @ 35°C      |
| Solid Content (by weight)      | 65 - 70%                   |
| Recommended Overcoating time   | 70 - 90 minutes @ 25°C     |
|                                | 40 - 60 minutes @ 35°C     |
| Recommended Dry Film Thickness | 50 microns/coat (minimum)  |
|                                | 100 microns/coat (maximum) |
| VOC (USEPA-24)                 | <600g/L                    |
| Flash Point                    | ≥25 °C                     |

### Application instructions

#### Surface preparation

Old or corrosive steel reinforcement surfaces should be grit blasted, sand blasted, or wire brushed sufficiently to remove the corrosion deposits and loose scale achieving the minimum grade of SA 2<sup>1/2</sup> according to Swedish Standards. The treated steel surface should be then cleaned from rust, corrosion debris and residues using a clean dry cotton rag followed by electric air blower. Ensure no oil, grease and other impurities are present. The steel surface should be dry and free of surface dust prior to the application of CIKOpoxy coat Z.

#### Mixing

Due to the presence of high solid content of zinc powder, it is recommended to mix CIKOpoxy Coat Z using an electric adjustable speed drill-paddle mixer to achieve a homogeneous mixture and distribution of solids.

#### Application

Post mixing to achieve a homogeneous mixture, apply CIKOpoxy Coat Z within maximum 4 hours of surface preparation and cleaning using a solvent resistant brush.

During application ensure a uniform unbroken film and full coverage of material at a consumption rate ranging between 0.13 kg/m<sup>2</sup> and 0.26 kg/m<sup>2</sup> depending on the required dry film thickness.

Apply a second coat within the recommended overcoating time by overlapping to adjacent areas if a broken coating was noticed.

CIKOpoxy Coat Z can be sprayed using an airless sprayer or conventional compressed air sprayer using the suitable nozzle sizes.

### Precautions & Recommendations

- The primed surface should not be left exposed for more than 14 days. In aggressive environment the period of exposure shall be reduced. Consult CIKO technical department for further support.
- The application of concrete repair materials and its bonding agents' may proceed as soon as the CIKOpoxy Coat Z is fully dry.
- Ambient temperatures during application of CIKOpoxy Coat Z is recommended to be between 5 °C and 40 °C.
- Do not apply CIKOpoxy Coat Z over rusty and corroded steel reinforcement surfaces without treatment and preparation.
- For spray application, consult CIKO technical department.
- CIKOpoxy Coat Z is highly flammable. Keep away from any source of ignition or high temperatures.

### Subsequent Finishes & Compatibility

CIKOpoxy Coat Z is compatible with wide range of CIKO concrete bonding agents and repair mortars. Consult CIKO technical department for further support and recommendations.

### Legal Notice and Warranty

CIKO warrants this product to be free from manufacturing defects and to meet the technical properties stated in the current Technical Data Sheet, if used as directed within its shelf life. Satisfactory results depend not only on quality of product but also on many factors beyond our control. CIKO makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its product. The sole and exclusive remedy of purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of CIKO. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by purchaser. CIKO will not be responsible for any special incidental, consequential including lost profits or punitive damages of any kind. Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on CIKO's present knowledge and experience. However, CIKO assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. CIKO reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified expert.

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All CIKO products are manufactured under a strict management system conforming to and in compliance with requirements of international standards of Quality, Environmental, occupational Health and Safety ISO 9001, ISO14001 and ISO45001.

### Packaging

CIKOpoxy Coat Z is available in 2 Kg and 4 Kg metal cans.

### Storage

CIKOpoxy Coat Z should be stored in its original packaging under enclosed shaded area away from direct sunlight, moisture or water at temperatures between 5 °C and 25 °C.

If stored at high temperatures and/or high humidity conditions the shelf life may be reduced.

### Shelf life

CIKOpoxy coat Z has a shelf life of 6 months if stored in accordance with CIKO's instructions.

### Health & Safety

Use an approved filtered respiratory mask to avoid inhalation of solvents and fine metallic powder. when wet or moist can cause burns to skin and eyes which should be protected during use. If comes in contact with skin/eyes, flush with plenty of fresh water and seek medical advice.

Refer to Material Safety Data Sheet for further details.

### Technical Support

*For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off-site services to end users, specifier and contractors.*

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