Congard ® Zinc

2 COMPONENT EPOXY ZINC PRIMER

DESCRIPTION

Congard Zinc is a two component, metallic zinc epoxy primer for use with Conpatch concrete repair systems or steel coatings to provide a protective and anti-corrosive coating.

USES & ADVANTAGES

Congard Zinc is intended for use as a zinc primer as part of a repair or coating system for structures in aggressive environments in a wide range of industries, including offshore facilities, petrochemical plants, pulp and paper mills, bridges, power plants and marine structures.

Congard Zinc has been designed for use in maintenance and repair situations and as a primer in new construction. It is used as an anti-corrosion primer for reinforcement to be used in conjunction with Cormix repair products and grout.

Advantages include:-

- Use with Cormix repair systems.
- May use with steel coating systems.
- Long pot life.
- Touch dry within 15-45 minutes.
- High coverage rate.
- Apply by brush or spray.

PROPERTIES

Component: Two Part A - Base
Part B - Hardener

Colour: Grey (When mixed)

Mix Density: 2.14±0.05 kg/ltr

Potlife: 120±10 mins

Gloss Level: Matt

Volume Solids: 59%

Typical Thickness: 50 - 75 microns (2-3 mils)

Practical Coverage: 4.5 - 5.5 M^2/kg at 50 microns d.f.t. and stated volume solids.

Method of Application: Airless spray, Air spray, Brush, Roller.

Bond Strength:

On Concrete Surface ASTM D4541: 7 days > 2.00 N/mm^2 (concrete failure)

On Steel Surface ASTM D4541: 7 days > 5.00 N/mm^2

Drying Time:

Temp.	Touch Dry	Hard Dry	Over coating Interval with Recommended Top Coats Min.	Max.
23°C	30 mins.	1 hr.	4 hrs.	Indefinite
35°C	20 mins.	30 mins.	2 hrs.	Indefinite

Compliances: BS4652 : Type 2

Flash Point: Greater than 23°C for both Components & mixed paint.

SUBSTRATE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504-1992.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning - Steel

Abrasive blast clean to Sa2.5 (ISO 8501-1: 1998) or SSPC-SP6. If oxidation has occurred between blasting and application of **Congard Zinc**, the surface should be reblasted to the specified visual standard. Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner. A surface profile of 40 -75 microns (1.5-3.0 mils) is recommended.

Concrete Repair - Steel Reinforcement Coating

Expose fully any corroded steel in the repair area and remove all loose scale and corrosion deposits. Steel should be cleaned to a bright condition paying particular attention to the back of exposed steel bars. Grit-blasting is recommended for this process.

Where corrosion has occurred due to the presence of chlorides, the steel should be high-pressure washed with clean water immediately after grit-blasting to remove corrosion products from pits and imperfections within its surface.

MIXING

Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified.

1) Agitate Base (Part A) with a power agitator

2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.

MIX RAITIO

Part A : Part B = 5 : 1 by weight.

APPLICATION

Congard Zinc should be applied to the rebar or steel as soon as possible after preparation work and the steel is dry.

Apply one unbroken coat. In concrete repair situations ensure the rebar is coated at the back surface. If the coat is broken reapply a second coat after the first is dry (between 30 and 60 minutes).

The primed surface should be overcoated or covered with repair material if outside within 2 weeks. If in industrial or marine environments the interval should be reduced to the minimum possible.

The installation of concrete repair materials should take place as soon as **Congard Zinc** is fully dry (30 to 60 minutes).

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Airless Spray :
Recommended - Tip range 0.43-0.53mm. (17 -21 thou.)
- Total output fluid pressure 2,500 p.s.i

Conventional Spray: Suitable
Brush or Roller: Suitable
Thinner Congard Thinner
Cleaner Congard Cleaner
Work Stoppages:
Do not allow material to remain in hoses, gun or spray equipment. Once units of paint have been mixed, they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.

CLEANING

Clean all equipment immediately after use. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays.

PACKAGING

Supplied in pre-measured 2.5 kg/set &10 kg/set kit.

STORAGE & SHELF LIFE

Congard Zinc has a shelf life of 12 months if kept in a dry store in the original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

HEALTH & SAFETY

Congard Zinc should not come in contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Wear suitable protective clothing, gloves and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of skin contact with **Congard Zinc** remove immediately with resin removing cream followed by washing with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - **do not induce vomiting**.

Fire: Congard Zinc is flammable. Keep away from sources of ignition. In the event of fire, extinguish with CO_2 or foam. Do not use a water jet. Avoid smoking.

TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

ISO 9001 : 2015 verified by TUV Nord

ISO 14001 : 2015 verified by Lloyd's Register International.

DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc.
Cormix does not take responsibility nor need to defend others testing that does not achieve the published data. The user must test the products suitability for the intended application and purpose. Cormix reserves the right to change the properties of the product.
Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advise offered.

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