

2 Component Epoxy Zinc Primer

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

USES & ADVANTAGES

Guardian Zinc Primer 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.

Guardian Zinc Primer 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 Guardian repair products and grout.

Advantages include:-

- Use with Guardian 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)	
Theoretical Coverage:	11.8 m ² /litre at 50 microns d.f.t. or 5.5 m ² /kg at 50 microns d.f.t. and stated volume solids.	
Practical Coverage:	Allow appropriate loss factors.	
Method of Application:	Airless spray, Air spray, Brush, Roller.	
Bond Strength:		
On Concrete Surface	7 days > 2.00 N/mm ²	ASTM D4541 (concrete failure)
On Steel Surface	7 days > 5.00 N/mm ²	ASTM D4541

DYING TIME

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

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.

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SUBSTRATE PREPARATION

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 Guardian Zinc Primer, 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.

MIX RATIO

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

APPLICATION

Guardian Zinc Primer 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 **Guardian Zinc Primer** is fully dry (30 to 60 minutes).

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 Guardian Thinner

Cleaner Guardian 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 10 kg/set kit.

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STORAGE & SHELF LIFE

Guardian Zinc Primer 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

Guardian Zinc Primer 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 **Guardian Zinc Primer** 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: **Guardian Zinc Primer** is flammable. Keep away from sources of ignition. In the event of fire, extinguish with CO₂ or foam. Do not use a water jet. Avoid smoking.

TECHNICAL SERVICE

The Guardian Coating 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