MasterCrete PRI 2500

Single component, epoxy based, anti-corrosive, Zinc Rich primer

Material Description

MasterCrete PRI 2500, is a single pack zinc rich primer, based on Epoxy Ester resins for use with MasterCrete Concrete repair mortars. It not only has excellent adhesion properties but also excellent corrosion preventing properties to protect reinforcement steel. It conforms to AS/NZS 3750.9 Type 1 and provides cathodic protection to steel.

Areas of Application

MasterCrete PRI 2500 is used for the protection of reinforcement steel:

- As primer of reinforcing steel in cementitious concrete repair applications as part of remedial.
- can be used as a zinc rich repair primer or holding primer
- must be applied directly to suitably prepared bare steel or previously applied zinc rich coating
- In critical environments when extra protection is specified.

Characteristics and Benefits

- Meets AS/NZS 3750.9 type 1 requirement- for steel priming in concrete repair systems.
- zinc in dry film 87% by weight- provides an excellent barrier to further corrosive elements such as chlorides attacking the steel
- excellent corrosion preventing properties- by providing cathodic protection to steel
- Easy and time saving application – one part primer, touch dry after 30 minutes
- Long life repairs - does not reduce adhesion of repair mortars to steel
- Full package solution- compatible with all MasterCrete cementitious mortars mortars and MasterCrete FC/RMX micro-concretes and Grouts.

Properties

Property	Values
Appearance	Grey- flat
Solid content (by volume)	42%
Dry Film Thickness (DFT)	50 microns
Wet Film Thickness (WFT)	120 microns
Theoretical spreading rate*	8.4 m^2/l
Touch dry after	30 minutes
Full cure	7 days
Temperature resistance	95°C (Dry) 35°C (Wet)

Note: ** The coverage rate is theoretical - wastage and nature of steel substrates, are main factors for practical coverage rates.*

Application

Surface Preparation

Prior to application, thoroughly expose any corroded steel in the repair area and eliminate all loose scale and flaky corrosion deposits. It is recommended to employ grit blasting or high-pressure water blasting for this procedure. In cases where corrosion is attributed to the presence of chlorides, promptly wash the steel with clean water under high pressure after grit blasting to eliminate corrosion products from pits and imperfections on its surface.

Mixing

Despite being a single-component product, it should be stirred thoroughly before use to ensure proper redistribution of any settled particles. Aggitate continuously during application.
The temperature of the paint must be above 15°C, otherwise MasterCoat THI 955 (thinner) may be required to obtain application viscosity.

volume of MasterSeal 955 0-3%*

**Note: Too much thinner will result in lower sag resistance and slower*

Application:

Substrate temperature must be at least 5°C during surface preparation, application and curing and at least 3°C above dew point. Relative humidity should not exceed 85%.

MasterCrete PRI 2500 must be applied promptly onto a dry steel surface following the completion of preparation work, but always within a 3 hrs timeframe.

Apply a full coat of MasterCrete PRI 2500 using a suitable brush*, ensuring thorough** coverage of exposed steel reinforcing bars. Allow the coat to fully dry before proceeding. If uncertainty arises regarding the achievement of a continuous coating, apply a second coat as soon as the first one is completely dry, typically between 30 minutes and 1 hour (refer to overcoating table).

Avoid leaving primed surfaces exposed to the elements for longer than necessary before applying MasterCrete repair materials and as soon as the MasterCrete PRI 2500 is fully dry.

Note:

**A smaller brush is generally more suitable for this task to prevent splashing the primer over concrete surfaces and reducing risk of de-bonding between the cementitious repair mortar and the concrete substrate.*

***Avoid leaving brush marks since these will reduce the protective life of the paint system.*

Overcoating/Curing Table

Overcoating interval for MasterCrete PRI 2500 when top coating with itself or compatible topcoats or Concrete Repair Material:

Interval/Curing	5°C	15 °C	25 °C	35 °C
Min	4/5hrs	3/4hrs	2hrs	1hr
Max*			2months	

Note:

**** MasterCrete PRI 2500** offers protection to steel under clean interior exposure conditions for several months. In non-aggressive exterior environments, a maximum interval of 14 days is acceptable, while in industrial and/or marine environments, this interval should be minimized as much as practically feasible.*

Packaging

MasterCrete PRI 2500	1L and 4L
MasterSeal 955	20L

Storage & Shelf Life

MasterCrete PRI 2500 has a shelf life of 12 months. Shall be stored in a dry internal environment at between 5°C and 35°C.

Specification Clause

Description

An equivalent to MasterCrete PRI 2500; A single component Zinc Rich Epoxy primer, grey-coloured liquid based on zinc and epoxy Ester resins. It must be in compliance with AS/NZS 3750.9 Type 1. The Zinc weight in dry film to be greater than 85% .

Design Criteria

1-2 coats of Zinc rich primer are typically required based on profile of the steel substrate.

Zinc Rich Epoxy primer must be compatible with addition topcoats/repair mortars, etc

Zinc Rich Epoxy primer to be recoatable for application of concrete repair materials at intervals provided by manufacturer.

Precautions

- Flammable. Avoid contact with heat and naked flame.
- Avoid contact with skin and eyes.
- Use gloves, mask and goggles during application
- Adequate ventilation must be continuously maintained during application and curing.
- Zinc paints may develop pressure on storage, open containers carefully.
- Provide adequate ventilation when cutting or welding this product due to harmful zinc fumes.
- This product is intended for use in industrial situations by professional applicators.
- For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

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Disclaimer

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MB Solutions Australia Pty Ltd	MB Solutions New Zealand Ltd	Emergency Advice:
ABN 69 634 934 419 Suite 102, 2 Burbank Drive Norwest NSW 2153 **Freecall: 1300 227 300** www.master-builders-solutions.com/en-au	45C William Pickering Drive Albany, Auckland New Zealand **Phone: +64 9 414 7233**	1300 954 583 within Australia (24hr) 0800 001 607 within New Zealand