MITCH EPOKOTE 912

Epoxy Bonding Primer & Steel Corrosion Protector

DESCRIPTION

Mitch EpoKote 912 is a cement modified epoxy resin based three component coating fortified with corrosion inhibitor. It is primarily used as a bonding primer and for corrosion protection of reinforcement steel bars.

Mitch EpoKote 912 conforms to the requirement of European standarad EN 1504-7.

It is suitable for use in hot and tropical climatic conditions.

TYPICAL USES

- Bonding Primer for Concrete & Mortar
- Corrosion Protection for steel reinforcement
- General high strength repair mortar

PROPERTIES

TECHNICAL INFORMATION

Appearance	Grey paste (After Mixing)
Relative Density (typical)	2.0 g/cm^3
Application Temperature	5 ˚C – 40 ˚C
Shelf Life	1 year
Tensile Adhesion Strength	≥ 1.5 N/mm^2
Thermal Expansion Coefficient	Approx 18 x 10^{-6} 1/K
Pot Life	120 minutes

SURFACE PREPARATION

CONCRETE & PLASTER:

The surface must be clean, mechanically sound and dry. The moisture content for porous substrates should not be more than 5%.

Concrete must be free of laitance, curing membrane and release agents. If blow-holes, and other blemishes are present, they must be opened up, preferably by abrasive blasting or grinding.

Plaster should be one coat cement plaster, wood float finished and free of trowelling blemishes. The plaster should not be steel float polished.

Putty plaster should not be coated. Fiber cement should be free of all dust and fiber up stands.

STEEL REINFORCEMENT:

Steel bars should be clean and dry. If applying to rusted steel bars, the rust must be completely removed before application of the product. To ensure proper cleaning and rust removal, cleaning by sand balsting is the preferred method.

MIXING

Pack components are pre-weighed for optimum performance. Never split or proportion packs. Do not mix by hand. Add Hardener **B** into Base **A** container. Mix with a slow speed drill for 2 minutes, taking care not to entrain air. Then slowly add Aggregate Component **C** and continue mixing for a further 3 minutes.

APPLICATION

As A Bonding Primer:

Use a hard bristled brush to apply the product to a well prepared surface. To achieve the desired bonding properties, Mitch EpoKote 912 must be applied well into the substrate, filling all pores (minimum layer thickness 0.5 millimeter). Apply subsequent repair mortars wet on wet freshly applied Mitch EpoKote 912 must be protected against contamination and rain until it sets or til the application of the repair mortar.

As Steel Reinforcement Corrosion Protection:

Apply the first layer approximately 1 millimeter thick, using a masonry hard bristle brush to the cleaned reinforcement bars. Apply 2nd layer when the first coat is hard to the fingernail. Apply any repair mortar or subsequent treatment once the surface is completely dry.

LG 08, Al Ghani Arcade, Main G.T. Road, DHA II, Islamabad,
(TEL):+92-51-4493348, +92-51-4493349 (Fax): +92-51-4493347
sales@mitchellpakistan.com, www.mitchellpakistan.com

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As a Finished Coating:

Chemical resistant work or floors always requires three coats. Drying time will depend upon temperature, humidity and ventilation. **MITCH EPOKOTE 912** may be over coated at any time. Ensure that the surface is clean and free of contamination and chalking.

COVERAGE

As Bonding Primer:
1.5 to 2.0 kg/m^2 per mm thickness.

As Steel Reinforcement Corrosion Protection Coating:
2.0 kg/m^2 per mm thickness, applied in 2 layers for a total layer thickness of 2 mm. The total consumption of material will be 4.0 Kg/m^2

PACKAGING

20 kg KIT.

Consisting of Base A, Hardener B and Aggregate C.

SPEED OF CURE

	15 ˚C	**25 ˚C**	**35 ˚C**
Pot Life	4 hrs.	3 hrs.	2 hrs.
Light traffic	24 hrs.	22 hrs.	20 hrs.
Full traffic	48 hrs.	40 hrs.	36 hrs.
Full chemical cure	7 days	5 days	4

STORAGE

Shelf life is 1 year in unopened packs stored below 35ºC in a shaded environment. If stored at high temperatures the shelf life will be reduced.

Cleaning

Immediately after application is completed clean all tools and equipment with epoxy thinner. Hardened material can only be removed by mechanical means.

AFTERCARE - CLEANING AND MAINTENANCE

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.

MITCH EPOKOTE 912 can easily be reapplied over abraded surface after extensive use to revive its original appearance and finish.

PRECAUTIONS

MITCH EPOKOTE 912 should not be used when the temperature is below 5 ºC and falling.

If working indoors or in confined spaces, ensure adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Outdoors, the wet film is liable to wash off in rain or be damaged by frost. Do not apply if it is raining or rain is imminent.

If surfaces are not at least 2 ˚C above dew point, there is a chance that a film of condensed moisture may be Present, this will interfere with the adhesion of the coating.

Wet film thickness should not exceed the recommended figures as solvent entrapment could result. The same condition may be caused if over-coating times are shortened. Solvent entrapment in the film can lead to inferior performance.

Take precautionary measures against static discharge. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

Fully cured **MITCH EPOKOTE 912** is inert and harmless.

As common with all epoxies this product may chalk slightly on exposure to direct sunlight.

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HEALTH & SAFETY

Some of the components of this product may be hazardous during mixing and application, please take all precautionary measures to avoid any contact with eyes, mouth, skin and foodstuff.

The use of barrier creams provides additional skin protection. If contact with skin occurs, wash with water and soap. DO NOT USE solvent or thinner.

Splashes into eyes should be washed immediately with plenty of clean water and medical advice sought.

In case of inhalation bring patient to fresh air, loosen collar and keep patient rested.

In case of accidental ingestion, DO NOT INDUCES VOMITING. Obtain immediate medical attention.

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