

DESMOCRETE™ WPA-M

Polymer modified Cementitious Membrane System for Waterproofing

Introduction

DESMOCRETE WPA-M is a two component, polymer modified cementitious waterproofing product which can be used in conjunction with glass fiber leno mesh to form a seamless, high build and durable membrane. The time tested chemistry of the product, ease of application and cost-effectiveness makes DESMOCRETE WPA-M a go-to product for the waterproofing of commercial and residential projects.

Application Area

- Wet area like bathroom, toilet etc
- Terrace, balcony, chhaja etc
- Podium level slab
- Basement from positive side
- Potable water tank

Key Features

- Water based system. No harmful volatile content. Safe to apply in confined places
- Optimum workable time. Easy to apply with good workmanship
- Excellent bonding with concrete and common masonry surfaces
- Resistant to ingress of water at high hydrostatic pressure

Technical Data

Mixing ratio WPA-M Powder to WPA Liquid	3:1 By weight
Pot life at 30°C	30 minutes
Recoat time @ 30°C	4-5 hours
Full cure time	7 days

Application Instructions

Preparatory Steps

Make sure plumbing line, pipe fittings, core-cut pipe penetrations, sanitary fitting, brick work etc are done before proceeding for waterproofing. Once a waterproofing job is completed, breaking or damaging the waterproofing layer, protective screed/ plaster layer generally leads to poor performance.

Surface Preparation

The surface of application must be clean, smooth and sound. Concrete surface should be free from dust, laitance, oil, debris, loose concrete etc. presence of which results in poor bonding between concrete surface and waterproofing membrane.

Remove loose concrete, cement laitance and other friable material. Grind the concrete surface to obtain a smooth and sound surface. Grinding will remove high spots and reduce surface roughness.

Surface dust must be removed using vacuum/ air blower followed by washing/ moping.

Steel surface (if any) should be free from rust and oil. PVC pipe surface should be roughened using suitable emery paper.

Perform patch work on concrete using polymer modified cement mortar (CM 1:1) admixed with DESMOCRETE DEXTR polymeric cement modifier 10 % by

weight of the cement content. For more details, refer to DESMOCRETE DEXTR product data sheet.

Membrane application

Make estimation of the material required for a given prepared surface area. Do not mix material which cannot be used within 30 minutes. Do not re temper the mix with water.

For ease, DESMOCRETE WPA-M is supplied in preweighed proportion. However, if required, pre-weight Desmocrete WPA-M Liquid and Powder proportionally, i.e. mixing ratio is 3 Parts Powder and 1 Parts Liquid by weight.

Take a clean container and add the liquid component. Add the powder component with continuous stirring using hand held electric stirrer. Mix for 1-2 minutes such that smooth, uniform consistency is obtained.

Pre-wet the concrete surface before application. Avoid water puddling. Pre-wetting of concrete surface helps with smooth spreading of Desmocrete WPA-M mix and improves bonding.

Apply one coat of freshly prepared WPA-M mix using smooth trowel and allow it to dry for 3-4 hours.

Apply second coat of freshly prepared Desmocrete WPA-M mix and fix reinforcing Glass Fiber mesh. Apply third coat on wet second coat simultaneously embedding the Glass Fiber mesh completely. Allow it to dry for 12 hours. Apply top coat and allow it to dry.

Foot traffic can be resumed after 48 hours of final coat.

Pond test should be done after seven days of air curing under normal sunny environment.

Coverage

3.7-4 Kg/ Sq.m. with 100-150 GSM Glass Fiber leno mesh. Practical consumption may vary depending upon the surface condition

Packaging

DESMOCRETE WPA-M Powder – 30 Kg Sacks and Liquid - 10 Kg HDPE container

Storage

Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight. Keep in cool, dry and under shed. DESMOCRETE WPA-M performs well for at least 6 months from the date of manufacture if stored following aforesaid method. Packs once opened have to be consumed immediately.

Health and Safety

Wear safety goggle and hand gloves while handling the product. DESMOCRETE WPA-M is a non-toxic and non-flammable product.

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