Mora Cement Waterproofing

Elastomeric crack-bridging cementitious waterproof membrane

Mora Cement Waterproofing is a two-component flexible polymer modified cementitious waterproof coating; it has unique crack bridging characteristics even after long term water immersion. The product is suitable for use and contact with potable water and can withstand negative hydrostatic pressure.

Uses:

- Waterproof lining for water tanks, dams, canals, etc.
- Wet-areas waterproofing while receiving tile adhesives.
- Protecting concrete and masonry structures against ingress of chloride ions and carbonation.
- Negative hydrostatic pressure resistance.

Advantages:

- Non-Toxic - approved in contact with drinking water.
- Flexible, crack bridging.
- Waterproof.
- Ready to receive tile adhesives.
- Withstands high positive and negative hydrostatic pressures.
- Easy application by brush, roller.
- Bonds to damp concrete.
- Effective barrier to sulfates and chlorides.
- Excellent bond to concrete and masonry.

Standards Compliance :

- EN 1992-3:2006 - Eurocode 2. Design of concrete structures. Liquid retaining and containing structures
- EN BS 6920 - Elevated temperatures.
- DIN 1048: Water Penetration Test.
- Fire Tested to BS476: Parts 6 -2009 and 7-1997.

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Technical Data:

Mora Cement Waterproofing	Typical Values @ 20ºc
Pot Life	40 - 60 Min
Density	1.70 Kg/Ltr Approx.
Toxicity - BS6920	Pass
Chloride Content	Nil
Resistance To Positive Water Pressure Din1048	>8 Bar
Resistance To Negative Water Pressure Din1048	> 3 Bar
Static Crack Accommodation	> 1 Mm
Dynamic Crack Accommodation	0.3 Mm
Abrasion Resistance ASTM D4060	Equivalent To 40 N/Mm2 Concrete
Chloride Diffusion	No Penetration After 24 Months
Co2 Diffusion	>80 M Of Concrete
Bond Strength	Higher Than Concrete Cohesive Strength
Application Temperature	+5ºc - 35ºc
Harmful To EEC 88/379	No
Volatile Organic Content (VOC)	<10 Gm / Liter

Usage Instructions:

Surface Preparation:

All surfaces should be dry and free from contamination, such as oil, grease, loose particles, decayed matter, moss algal growth, laitance, and all traces of mold release oils and curing compounds. This is best achieved by lightly grit-blasting the surface. Where moss, algae, or similar growths have occurred, treatment with a proprietary biocide should be carried out after the grit-blasting process. Remove spalled and deeply disintegrated concrete to sound concrete and repaired with a Mora mix repair system. If the surface contains small blow-holes, typically less than 1mm wide, the coating can be applied directly onto the substrate without the need for treatment. Cracks that are less than 0.3mm in width can be over- coated as long as the crack is not likely to open up to greater than 0.3mm. Chased out cracks greater than 0.3mm in width to 4mm in width and approximately 15mm in depth; fill with Mora Cement Waterproofing. When the material in the crack hardens, apply the coating over the crack.

Mixing:

Pour Mora Cement Waterproofing liquid concentrate from the plastic container into a suitably sized mixing container. Commence mixing with a propeller agitator attached to a slow speed drill (300-500rpm). Gradually, add the powder component to the liquid part to avoid lump formation and mix for 2-4 minutes. Immediately after mixing, use Mora Cement Waterproofing. Do not mix material more than the quantity that can use within the pot life. Keep mixing Mora Cement Waterproofing during the application.

Pre-wetting of the substrate:

Thoroughly dampen the substrate surface with water using a brush roller or spray bottle. High porosity substrates will require more dampening than dense substrates. Do not apply the coating when the substrate is wet, but allow the water to soak in until the substrate is just visibly damp before proceeding. Remove any excess water using a sponge. Stop any running water with a suitable plugging mortar such as Mora Cement Waterproofing. Contact the local Moramix office for further advice on other suitable water-stopping materials.

Application:

- Mora Cement Waterproofing white should be applied as the first coat for optimum use of the product, with Mora Cement Waterproofing grey as the second coat. This gives a visual indication of coverage.
- Apply the first coat at a wet film thickness of 1mm (approximate coverage per coat is 1.7 kg/m2 or 1 liter/ m2).
- Apply the second coat at a wet film thickness of 1mm. Pre-dampening of the surface is not necessary before applying the second coat.
- However, Mora Cement Waterproofing is self-curing; protect the freshly applied coating from rain and strong wind until it becomes firm to the touch.

Brush application:

The most suitable brush is a soft-bristled wallpaper paste brush (120 - 220mm wide). Where applied to larger areas, it is advisable to use a brush with a handle. Load the brush up well and spread the material to the required thickness. If the brush begins to drag during the application, do not add water to the material but dampen the surface again. Finish in one direction for a neat appearance. For floor application, a soft-bristled broom is recommended. Pour the material onto the substrate and then spread it to the required thickness.

Roller application:

Application by roller has the benefit of quick speeding over brush application, particularly on smooth substrates. A good quality medium hair roller is recommended. Load the roller well for ease of application.

Spray application:

Carry out spray application using specialized pumping equipment (contact Moramix's local office for more information). This is the preferred method for applications over 150m2.

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Sealed joints:

Before applying Mora Cement Waterproofing, and where required, seal joints with a suitably

approved joint sealant. For further details on suitable sealants, contact your local Moramix office.

Apply debonding tape over the sealant. Following the application of Mora Cement Waterproofing, remove the tape and overlaying coating.

Curing:

Allow the Vetoproof CM745 to cure for at least 7 days before commissioning.

Cleaning:

Immediately following application, clean all tools and equipment with clean water. Hardened material can be removed by mechanical means.

Shelf Life & Storage:

The original sealed bag and container of Mora Cement Waterproofing have a shelf life of 12 months, provided it is stored clear of the ground, in a dry, shaded place below 35ºC.

Limitations:

- Do not apply the product at a temperature less than 5+ºC.
- For further information contact Moramix technical department

Health & Safety :

Mora Cement Waterproofing powder is irritating to the eyes, respiratory system, and skin. Avoid inhalation of dust and wear suitable respiratory protective equipment. Mora Cement Waterproofing liquid is not classified as dangerous Mora Cement Waterproofing, when mixed, becomes highly alkaline. Wear suitable protective clothing, gloves, and eye protection. For both components and the material, when mixed, avoid contact with eyes or skin. In case of contact, rinse immediately with plenty of water and seek medical advice. Waste material should be allowed to harden overnight then disposed of as non-hazardous waste. Mora Cement Waterproofing is non-flammable. For further information, please refer to the Product Material Safety Data Sheet.

Additional Information:

Moramix manufactures a wide range of construction chemicals and specialty products for various applications divided into the following product groups.

- Cementation Waterproofing Systems.
- Grouts.
- Finishing Flooring Systems.
- Finishes & Plasters.

- Tile Adhesives &Grouts.
- Primers & Ancillary Products.

- Thermal Insulation Systems.
- Protective Coatings.

Packaging & Coverage:

Pack Size: (15kg Comp. A) (5 KG Comp. B)

Theoretical Coverage: 0.7-1.7 Kg/m2/Coat.

Stated consumption data are for general guidance. Actual consumption depends on the nature of substrate, consistency used, method of application, and wastage.