

MIXGUARD CWC

Acrylic Polymer modified single component cementitious flexible water-proofing system



the construction chemist...

Introduction

Mixguard CWC is a single component acrylic Polymer modified cementitious flexible water proofing system based on selected liquid polymer and powder. Mixguard CWC is a ready-mixed, cementitious surface applied, waterproofing membrane consisting of sulphate resistant cement graded quartz and inorganic additives. MixGuard CW-Chas been tested to a pressure of 1.5 bar. The Initial and final bonding capability of MixGuard CW-C is excellent making it suitable for application to both vertical and horizontal surface on concrete ,block, work, cement plaster etc. It is durable, resistant to frost and heat after setting and remains permeable to water vapor.

Appropriation

General construction water and damp proofing, basements,

For swimming pools, lift holes, spill ways bathroom slabs, kitchen slabs and other wet areas

Water and damp proof lining for water retaining structures

For water proofing of drinking water reservoirs, both interior and exterior

To provide protection for concrete against carbonation and chloride attack

Water proofing coating for roofs and tunnels

Water proof background mortar for tiles and marble, granite etc

Characteristics

Good adhesion to almost all surfaces

Non toxic, so suitable for potable water

Hard wearing and seamless

Excellent water proof and flexible in nature

Resistant to positive and negative pressure

Resistant to carbon dioxide and chloride diffusion and forms an anti carbonation film

Applicable on a day old concrete structures



Technical Data and Properties

Appearance	Cementitious Powder
Color	Grey, White
Bulk Density	1.4Kg/m ³ approx
Compressive Strength	25 N/mm ² (BS 1881)
Bond Strength	>1.5N/mm ²
Water Vapor Resistance	3MN sg-1
Elastic modulus (static):	18K/Nm ² @28 days
Initial Setting time	2 Hours @20C
Application Temp	+5°C to 60°C

Product Management

The surface must be perfectly clean, solid and free from non adherent parts, loose cement , traces of form stripping oils, old varnishes.

Create A 45 c fillet at junction between wall and floor with MixBuild HB or Mixbuild MC.

Saturate the foundation with water to eliminate possible water absorption at the moment of application.

Priming is not normally required on good quality concrete substrates however all surfaces must be splashed with clean water before applying.

All expansion and movement joints should be sealed with a suitable joint sealant after the application of MIXGAURD CW-P .Consult the technical Department in pychem office for advice.

All shrinkage and non-moving structural cracks having a width equal to or less than 0.3mm will be waterproofed by applying MixGuard CW-C directly bridging over the crack. Static Cracks wider than 0.3mm must be routed out to form a V shaped groove with a hand or Pneumatic chisel. The cracks then must be repaired by priming the chiseled out crack with MixPrime AC, Followed by the application of MixBuild HB or Mixbuild MC to fill the rebate flush with the concrete surface. All of above products must be applied green on green before the previous layer has dried out.



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All water seepage must be stopped using Mix plug mortar prior to the application of Mixguard CWC.

Do not attempt to apply MixGuard CW-Cover weeping or seeping substrates no matter how slow the seepage as the MixGuard CW-C will be damaged by the seepage water before it has a chance to cure.

Method of application:

Place 25Kg of MixGuard CW-C into a container containing 5.25 -5.75 litres of clean water for brush or trowel application. The MixGuard CW-C powder and water must be thoroughly mixed fitted with a grout mixing paddle for 3 minutes immediately as can be used within 20 minutes and stir the mixture frequently. If the mixture starts to set, do not add more water; simply stir the product to restore workability.

Apply the first coat from the base of the wall and work towards the top using a trowel , a hopper gun or a brush in a horizontal brushing action. After 4-5 hours apply the second Coat green on green so that a chemically bond is achieved between the two coats .

Do not apply first coat more than can be over coated with a second coat during the same day.

When applying MixGuard CW-C by spray using a hopper Gun, ensure that the gun is held directly Perpendicular to the surface at a distance or about 500mm to ensure that the maximum impact

Energy is applied to the surface and to prevent any shadowing across small surface imperfections.

After application of the first coat by spray, brush or trowel the wet surface to remove any entrapped air.

Surface preparation: The surface must be clean and free of oil, grease, dust and any other Unwanted residual material. The surface to be treated should be thoroughly wet prior to application (no standing water, though).

Mixing: The material is supplied in two parts, and pre-measured. On-site mixing is needed.

Slowly add the powder to the liquid and mix using a slow speed drill fitted with a Suitable paddle.

Do not mix more materials than that can be used within 45 minutes.

The appearance of the material will be creamy consistency.

Do not add water at any stage to get the material loose.

Packing & Storage

MixGuard CW-C is available in 25kg kit For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers/ storage tanks. Mixguard AC should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

Health & Safety

Mixguard CWC contains no hazardous substance. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each PyChem product.

Technical information given in this data sheet is true and exact to the best of our knowledge, laboratory upshot and hand-on application. The data sheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity and porosity of substrate may impinge on values



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