



WPM 415 C

Crystalline Capillary Waterproofing

Features

Suitable for sewage treatment and water treatment plant, water tanks, concrete pipes and manholes

Deeply penetrates and seals the substrate

Single component system, no addition of liquid component except water at site

Suitable for external and internal application

Toxic free - Providing protection against corrosive waterborne salts

Can be left exposed

Indian Green Building Council
M E M B E R

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WPM 415 C

Crystalline Capillary Waterproofing

DESCRIPTION

WPM 415 C is a single component polymer modified cementitious waterproofing compound. The mixed slurry has excellent adhesion with concrete / sand cement screed. During application it seals the hairline cracks caused by shrinkage or expansion.

WPM 415 C penetrates into the pores of the substrate by capillary action and is channelled to the lower depths of the concrete by the moisture that is present, this occurs even in the smallest pores and capillaries. The reaction between moisture and the active WPM 415 C chemicals creates a continuous barrier of insoluble crystals. The crystal formation follows the water back as far as it is present in the structure. The capillaries are permanently blocked to the passage of water however vapour may pass allowing the structure to breathe.

Rate and penetration of crystal formation depends on the presence of free lime and the density of the concrete. Old concrete may have no free lime present and this needs to be determined prior to application.

AREAS OF APPLICATION

Basements, Retaining walls, Wet areas, Balcony, Roof terrace areas and Water tanks etc.

STANDARD

WPM 415 C conforms to the Overall Migration Standards laid down in 21 CFR 175 - 300 (April 1, 2011) of US - FDA for intended use for contact with potable water.

SURFACE PREPARATION

The substrate must be dry, hard, sound and free of dust and other barrier materials such as paint, wax, polish, lime coatings, plaster, curing agents, laitance, adhesive residues etc., which will inhibit adhesion to the substrate. New substrate shall be allowed to cure and dry as per standard procedure.

NOTE: Any joints in the substrate where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface. All cracks, pipe penetration, construction joints, bore packing, corners etc., shall be treated as per ARDEX ENDURA specification prior to application of WPM 415 C. New concrete should be allowed to cure for at least 28 days.

MIXING

Mix 20 kg WPM 415 C with 6.70kg of water using suitable slow speed spiral drill to get brushable consistency. Pre wet the surface prior to the application. Apply the slurry compound on prepared surface using brush or roller. The surface shall be protected from foot traffic for 48 hours or heavy traffic / water tanks for 7 days.

APPLICATION

Once the surface is ready pre wet the surface using water and apply 1 coat of the waterproofing slurry.

1st Coat - Powder : Water
3 : 1

Apply the second coat of waterproofing slurry by brush / roller / broom in opposite direction with respect to the 1st coat.

2nd Coat - Powder : Water
3 : 1

CURING

WPM 415 C system application must be kept moist for a minimum of 48 hours. After initial set, moist curing, using continuous water spray is recommended.

CLEANING

Wash hands, brush, rollers, etc. with water while the membranes is still fresh.

PROPERTIES

The values shown are typical of results obtained in the laboratory at $27 \pm 1^\circ\text{C}$. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

WPM 415 C	@ $27 \pm 1^\circ\text{C}$
Mixed material density	1.75 - 1.85 g/cc
Recoating time	6 - 8 hours
Pot life	30 minutes
Depth of penetration DIN 1048 part 5	22mm
Full cure	48 hours
VOC Content	4.29 g/L

COVERAGE ESTIMATES

Pack size	Coverage
20kg	Approximately 13 - 16.50m ² per two coats @ 150 - 200 microns thickness

Note : These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

STORAGE AND SHELF LIFE

WPM 415 C should be stored under the same conditions as cement; store in cool, dry shaded warehouses. WPM 415 C should not be stored in direct contact with the floor. When stored under the correct conditions will have a shelf life

of 12 months.

PRECAUTIONS

In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to epoxide materials. Always wear gloves and eye/face protection is necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL/SPILLAGE

Spillage of any of the component products should be removed with plenty of water. Disposal of such product or empty packaging should be in accordance with local waste disposal authority regulations.

For further information please refer to the Material Safety Data Sheet.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.