

ARMORCOAT 1C

ONE COMPONENT CRYSTALLINE WATERPROOFING SLURRY

PRODUCT DESCRIPTION

Armorcoat 1C is one-component crystalline waterproofing slurry that is specially designed to permanently waterproof both old and new concrete. It lowers the permeability of concrete and is used in place of surface applied waterproofing membranes for improved durability and longevity of concrete. When applied on a concrete surface it penetrates into the concrete and forms nano-crystals that blocks the passage of water through the pores of the concrete.

ADVANTAGES

- Easy application, environmental friendly and cost effective
- Potable water approved NSF/ANSI 61
- Seals and post seals shrinkage cracks, up to 1/64" (0.4 mm)
- Can be applied to green concrete as soon as forms are stripped
- Protects concrete against fresh water, salt water, waste water & aggressive ground water
- Resists strong hydrostatic pressure
- Applied to positive or negative side water pressure

TYPICAL APPLICATION AREAS

- Suitable for all concrete applications for water impermeability
- Exterior (positive side) or interior (negative side) waterproofing of below grade foundations, basements, retaining walls, utility vaults, elevator pits.
- Water tanks, wastewater tanks, water catchment basins, manholes, parking garages, tunnels, slurry walls.

APPLICATION GUIDELINE

Surface Preparation

Concrete substrates must be sound and of sufficient compressive strength (minimum 25N/mm2) with a minimum pull off strength of 1.5N/mm2. The substrate must be clean and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. if in doubt, apply a test area first.

Weak concrete must be removed and surface defects such as voids must be fully exposed. Repairs to the substrate, filling of voids and surface leveling must be carried out by using Armorpaatch 100. Thoroughly rinse all the surfaces to be waterproofed with clean water. Ensure that the surface is saturated to control surface suction and ensure the growth of the crystalline formation deep within the pores of the substrate.

Mixing & Application

Add the 3 parts of Armorcoat 1C powder to 1 part of clean water and mix for at least 3 minutes with a mechanical mixer to a creamy slurry consistency. Mix only as much material as can be used within 30-

40 minutes. In case false setting occurs, do not add water; restir to restore workablilty.

Application

A trial dry-shake application is highly recommended prior to the actual application.



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Horizontal Surfaces & Construction Joints

Dry-sprinkle and power-trowel or wooden float application:

The specified amount of Armorcoat 1C is dry distributed, by hand, using a sieve, or similar device, onto the concrete surface when the concrete to be treated starts to set initially. It is then troweled in until coverage is uniform and the specified finish is achieved (smooth or brushed).

Split Slabs / Construction Joints

Apply Armorcoat 1C in slurry or dry powder consistency to pre-watered concrete substrate, split slabs or construction joints immediately prior to casting the structural slab or wall.

Brush or spray application

Ensure that the Slab surfaces have a rough wood float or broom finish. Apply Armorcoat 1C in slurry consistency in the specified quantity, in one coat.

Vertical Surfaces & Construction Joints

Brush application

Brush on two coats of Armorcoat 1C in a slurry consistency onto the material evenly and work it well into the surface. Ensure that the second coat is applied while the first coat is still tacky.

Spray Application

Spray on one or two coats using compressed airspray equipment in circular movements Ensure that the second coat is applied while the first coat is still tacky.

CURING

Exposed Areas

The freshly treated surfaces should be protected from rain for a minimum period of 24 hrs. Start curing as soon as Armorcoat 1C has hardened sufficiently so as not to be damaged by a fine water spray. Keep damp for a period of 2 - 3 days for standard waterproofing applications, 7 days for potable water tanks.

Protect exposed surfaces against direct sun, wind and frost by covering with plastic sheeting, burlap, or similar. Do not lay plastic sheeting directly on Armorcoat 1C as air contact is required for proper curing.

Back filling can be carried out 36-72 hours after completion of the Armorcoat 1C treatment. Protection boards are generally not required. Backfill material shall be moist and not contain rocks or larger aggregate.

Indoor treated areas

Self curing in cool areas with high humidity. Keep moist for 2 - 3 days in areas with low humidity and 7 days for potable water tanks. Provide air circulation for minimum 24 hrs following the Armorcoat 1C treatment in poorly ventilated areas and deep pits.



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TECHNICAL DETAILS

Bulk Density	1.9 g/ml
voc	0%
Pot Life	30-40 minutes
Portable Water Certified	NSF/ANSI
Setting Time	60-90 minutes at 200C

LIMITATION, STORAGE & SHELF LIFE

12 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperature between +200C and 300C

PACKAGING

20kg

LIMITED WARRANTY

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either e x p r e s s e d or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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