

PRODUCT DESCRIPTION

ARMORCOAT -2K is a high performing two component flexible membrane consisting of a powder and a liquid acrylic emulsion component that when mixed together form an acrylic flexible protective and waterproof coatings. Ideal for the waterproofing of Balconies, terraces, flat roofs, reservoirs, basements, tunnels, water tanks, podium, desks and all wet areas.

ARMORCOAT -2K is based on Advanced Polymer technology; it possesses outstanding adhesion, mechanical properties, resistance to frost and salt water, has enhanced flexibility and excellent crack bridging properties.

ARMORCOAT -2K does not contain any ingredient which could negatively affect reinforcement or concrete.

FEATURES

- ARMORCOAT -2K can withstand continuously wet and immersed environment
- ARMORCOAT -2K is flexible therefore can withstand normal substrate movement from building surfaces.
- It is certified for potable water
- ARMORCOAT -2K dries without cracking, it has low shrinkage.
- It has excellent bonding properties to screeds, renders, and tile adhesives.
- Tested up to 6 bar water pressure (60m head of pressure); positive side; tested to 1.5 bar (15m head of pressure) on negative side
- Can withstand light foot traffic
- Can be applied to damp and moist substrates and allows concrete breathe

Two Component Flexible Waterproof Membrane

USES

ARMORCOAT -2K can be used for the waterproofing of the following areas:

- Podiums, Terraces, Balconies and under tile areas, Swimming Pools, Water Fountains, bathrooms, Kitchens
- Basement walls, internal and external side
- Waterproof coatings of old and new structures, above grade and below grade, positive or negative side.
- Waterproofing system over concrete blocks, bricks, masonry and mortars
- Sealing static hairline crack in concrete not subject to movement.
- Waterproofing of Foundation and retaining walls

SURFACE PREPARATION

- Surfaces must be prepared thoroughly before commencing application. All substrates must be structurally sound, stable, dry, and clean, with substrate compressive strength at a minimum 25MPa and cohesive strength a minimum 1.5MPa.
- Smooth shiny surfaces to be roughened or etched. Rough surfaces are to be evened or filled first with ARMORPATCH 100 Repair Mortar.
- Repair all static crack, honeycombs, all surfaces are to be free from loose materials, de-bonded coatings, curing membranes / agents, release agents, wax residues, foreign particles, laitance, algae and moss, grime, oils, animal fats or grease remains structurally unsound layers and surface contaminants are to be mechanically removed by abrasive



blasting, blast tracking, grinding or equivalent methods according to International Surface preparation.

MIXING AND APPLICATION

ARMORCOAT -2K consists of a 20kg powder bag and 10 litres Liquid keg, membrane is formed by mixing Component A (Powder) and B (Liquid) together

- Pour the Liquid to a clean empty dry container and add powder
- Mix thoroughly for a period of 3 minutes with a slow mechanical mixer to a slurry consistency without any powder or lumps. Mixing manually may not achieve optimum product performance.
- Before the application of Armorcoat- 2K the surface must be made damp (SSD) with water to allow proper adhesion
- Armorcoat-2k must be applied in a minimum of two layers with rollers, brush, trowel or spray gun.
- In areas with Micro cracks or pre-stressed Fiber glass should be used for the application of Armorcoat -2K
- Protect fresh application from rain, frost and direct sunlight in very hot weather. Armorcoat -2K should not be applied in very cold temperatures less than 400F.

MIXING AND APPLICATION

- Roller
- Squeegee
- Brush
- Roller
- Airless Spray

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RECOMMENDATIONS

- In waterproofing it is important that special attention is paid to detailing, joints, drains etc this alone is enough to make all the difference in success of the waterproofing project
- Do not apply when rain is imminent, however application two hours before rain will still be effective
- Do not add cement, sand or gypsum to ARMORCOAT -2K· ARMORCOAT -2K should be applied in two coats, which must not be more than 1mm per coat
- ARMORCOAT -2K should be applied to dampen substrate (SSD) and not surface saturated with water
- ARMORCOAT -2K first and second coat should be applied at the earlier of two hours from each other or as soon as the first coathas dried.
- For large areas, after the application of ARMORCOAT -2K, ARMORSIL self-Absorbent fabric should be installed on the first coat, it should be trowel pressed into the first coat, the second coat should then be applied after two hours.
- For areas where tiles are to be installed, ARMORCOAT -2K should be allowed to cure for three days before the installation of tiles.

ARMORFIX tile adhesive from ARMORSIL can be used for the installation of the ceramic tiles on ARMORCOAT -2K



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PACKAGING

30kg, which has two parts:

- PART A: 20kg powder and
- PART B: 10 litres

STORAGE

ARMORCOAT -2K Powder can be stored in a cool dry place for a period of 12 months, while the component B can be stored for a period of 24 months.

CLEANING

When still in fresh state ARMORCOAT -2K can be cleaned with copious amount of water.

However, after hardening it can only be cleaned from equipment and tools through mechanical means.

TECHNICAL DATA

PRODUCT	Comp. A	Comp. B
IDENTITY	Grey	White
Consistency	Powder	Liquid
Density (g/cm3)		1.1
Bulk density (g/cm3)	1.4	
Dry solids content (%)	100	50

Application Data of Product (at +20 C-50% R)

Colour of mix	Grey	
Mixing	Add component A to component B	
Consistency of mix	Plastic, trowelable	
Density of mix (kg/m3)	1.25 - 1.7	
Density after application		
by spray (kg/m3)	2.200	
Application temperature range	From +8oC to +35oC Pot life of mix 1 hour	

Performance characteristic	Test method	Requirements according to EN 1504- 2 coating (C) principles PI, MC and IR	Performance figures for Armorcoat 2k	
Impermeabili ty to water, expressed as capillary absorption (kg/m ² .h ₀ .5)	EN 1062-3	<0.1	<0.05	
Permeability to water vapour – equivalent thickness of air SD (m)	EN ISO 7783-1	Class I: S₀<5m (permeable to vapour)	S _D =2.4	U =1200
Static crack bridging at -20°C expressed as maximum crack width (mm)	EN 1062-7	From class A1 (0.1mm) to class A5 (2.5mm)	From class A3 (-20°c) to (0.5mm)	
Dynamic crack- bridging at - 20°C of a film of Armorcoat 2k reinforced with fiber glass expressed as resistance to cracking cycles		From B1 to class B4.2	Class B3.1 (20OC) No failure of the test piece after 1,000 crack cycles with movement of crack from 0.10 to 0.30	
Adhesion to concrete – after 28 days at +20oC and 50% R.H (N/mm2)			1.0	
Thermal compatibility to freeze/thaw cycles with de-icing salts, measured as adhesion (N/mm ²)	EN 1542	For flexible systems with no traffic > 0.8 with traffic > 1.5	1.8	
Permeability to carbon dioxide (CO_2) – diffusion in equivalent air layer thickness	EN 1062-6	>50	>50 >50	



Elasticity expressed as elongation – after 28 days at +200C and 50% R.H. (%)

temperature may affect these values

HEALTH AND SAFETY

ARMORCOAT -2K Component A contains cement that when in contact with bodily fluid may cause irritation and other allergic reaction to those predisposed. Safety gloves and googles should be won when mixing or applying ARMORCOAT -2K. Component B is not known to contain any hazardous substance and not considered dangerous according to present regulations

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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LIMITED WARRANTY

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