



ARMSTRONG CHEMICALS PVT. LTD.,
Bengaluru
An ISO 9001 Certified Company



High performance Two Component
Crystalline Waterproof Coating

DESCRIPTION OF THE PRODUCT :

ROOFEX 2K 711 crystalline compound with a features of which the applied ingredients penetrate and diffuse into the concrete for a long time, it also reacts with cement material and fill up the airline cracks inside the concrete with multiplied crystals a result of chemical reaction. It penetrates deep into the concrete to breathe. Strengthen the concrete by sealing of cracks and cavities by forming crystallization, and make the porous concrete into a sound substrate from its grass roots. Ideal to apply with brush / spray to surface for negative pressure of water including water retaining structures, effluent treatment plants & sewage plants.

ROOFEX 2K must be uniformly applied under the conditions and quantities specified. When a second coat is required, it should be applied after the first coat has reached an initial set but is still "green" (less than 48 hrs). Light pre-wetting between coats may be required

RECOMMENDED FOR :

Water reservoirs, Swimming Pools, Water Tanks, Basements, Wet areas & Balconies, inside Elevator Shafts in Buildings, Tunnels & Canals, Silos, Sewage Treatment plants etc.

ADVANTAGES :

- ★ Impermeable to pressurized water
- ★ Can be used for both +ve & -ve waterproofing breathable
- ★ Impregnates into substrate
- ★ Flexible
- ★ Self curing & Healing
- ★ Can be used in Brick & Stone masonry for -ve waterproofing
- ★ Can be used for Old and New concrete also

TECHNICAL DATA :

Density (Liquid)	Approx. 1.05g / cm ³	ASTM D 1475
Bulk Density (Powder)	Approx. 0.84g/cm ³	ASTM D 1895A
Density (Mixed)	1.84 +/- 0.06	ASTM D 1475
Elongation	Upto 16%	ASTM D 412
Flexural Tensile Strength	6.5 MPa	ASTM D 790
Adhesion to Concrete	1.65 MPa	ASTM D 4541
Water Vapour Permeability	1.85 +/- 0.05g / m ² / Day	ASTM E 96
Hydrostatic Pressure Resistance	10 Bars to 12 Bars	ASTM D 5385
Vapour Diffusion	60	
Compressive Strength	51 +/- 5MPa	ASTM C 109
Pot Life @ 30°C	45 Minutes to 1 Hr.	
Drying Time	11 to 13 Hours	
Substrate Temperature	10 - 40°C	

Retaining Structures : 2 coats applied at 0.75 Kg/m² per coat by brush or spray or 1 coat at 1.2 kg/m²

Back filled Concrete with Hydrostatic Pressure : 2 coats of 0.75 - 1 Kg/m²/coat. Keep moist for 3-4 days after application. If high hydrostatic pressure is anticipated consult **ARMSTRONG**.

Construction Joints : 1.5 Kg/m² applied in slurry coat just before pouring concrete.

Blinding Concrete : 1.2 Kg / m² applied in slurry coat just before placing overlying concrete slab.

Concrete Slab : Apply in one slurry coat of 1 Kg. / m².

WATER RETAINING STRUCTURE :

For concrete structures that hold liquids (Reservoirs / Tanks etc.) ROOFEX 2K should be cured for three days and then allowed to set for 12 days before filling with liquid. Allow at least 48 hours before foot traffic. For ROOFEX 2K to fully activate may require 2-4 weeks after application.

CURING :

Should be protected against evaporation by sun and wind. Careful spraying of water should be undertaken to keep the surface damp. Alternatively the surface once firm can be covered with plastic sheets, wehessian or midst sand. Curing compounds are not recommended. Fresh surfaces should be protected from rain for 24 Hrs and frost for 5 days. In deep pits and enclosed areas air circulation should be provided for 24 Hours following treatment.

Moisture cure ROOFEX 2K treated surface, 3-4 times per day for a period of 2-3 days starting with fine water fog spraying the day following the completion of ROOFEX 2K applications. Back fill materials can be placed on ROOFEX 2K after moisture curing has been completed, no protection boards are required.

ROOFEX 2K must be cured as per the instructions

- It is not a decorative coating
- Do not immerse in water retaining structures until 15 days old
- Allow at least 48 hours to cure before subjecting to foot traffic
- Protect against drying out.
- To fully activate the material may require 2-4 weeks.
- If high hydrostatic pressure is anticipated consult cormix.

OVERCOATING :

All ROOFEX 2K treated surfaces to receive epoxy coating or to be painted must be neutralized with a solution of ROOFEX 2K cleaner. The ROOFEX 2K application has to be aged for a minimum period of two weeks before application of epoxy.

FINISH : ROOFEX 2K is not a decorative finish. Discolourations of the treated surfaces may occur. This may be as a result of chemical reactions between ROOFEX 2K and the concrete or water. These discolourations do not reduce in anyway the waterproofing effect

COVERAGE : 1.2 - 1.6 Kgs. / m² / 2 coats by brush application (1 mm Approx. Thickness)

MIXING : 1 : 2 : 0.2 (Part-I (Liquid) 1 Kg., Part-II (Powder) 2 Kgs.) with 20% Water and apply 2 to 3 coats.

PACKING : 15 & 30 Kgs.

STORAGE : Store in dry conditions out of sun.

SHELF LIFE : 1 Year from the date of manufacturing. Store in the conditions out of sun.

HEALTHY & SAFETY : Is alkaline, use protective gloves, glasses and protect skin, if gets into eyes clean out with water immediately, wash off skin with soap and water immediately.

Whilst **ARMSTRONG CHEMICALS PVT. LTD.** strives to ensure that any advice, information or recommendation given are appropriate and correct. It cannot accept any liability directly or indirectly arising out of the use of products since the method and place of application of the products are beyond its control.



Manufacturers :

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Authorised Distributor / Stockist

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