

Kayra 2K Flex 7002 – Water Proofing



ACRYLIC CEMENTITIOUS TWO COMPONENT WATERPROOF COATING

Description

KAYRA 2K FLEX 7002 is a **high-performance, two-component polymer-modified flexible waterproofing coating**. It consists of **Part A: Special Cementitious Powder** and **Part B: Liquid Acrylic Polymer**. The system is designed to provide a durable, flexible, and impermeable barrier against water ingress on concrete and masonry surfaces.

Areas of Application

- Excellent as a waterproof coating for bathrooms, kitchen sinks, balconies, etc.
- Ideal as a coating for waterproofing of roofs, chhajjas, canopies, etc.
- As waterproof coating on internal sides of domestic water tanks.
- Can be applied over internal damp walls and concrete surfaces due to its excellent bonding.

Features & Benefits

- Flexible coating
- This product can be used for positive waterproofing due to its excellent bonding
- Excellent adhesion to concrete and masonry surfaces
- Excellent resistance to ingress of water
- Confirms to portable water contact parameters.
- Non-toxic with low VOC content

Method of Application

1 SURFACE PREPARATION

- The surface of application must be thoroughly prepared by mechanical means, to remove all loose particles, laitance, etc.
- Oil and grease, if any, must be de-greased with suitable solvents. It then must be washed off with jet of water and brought to touch dry state. Any surface undulations, cracks and crevices must be duly filled or repaired with cement sand mortar mixed with latex polymers such as Kayra SBR Latex 3001.
- All vertical up-stands & junctions /corners are provided with 45° fillet with Polymer Modified Mortar (PMM), mixed with Kayra SBR Latex 3001 all around the periphery of the junction.
- Substrate must be in a "Saturated Surface Dry" (SSD) condition (damp, without standing water) prior to application.

2 MIXING

- Shake the liquid component well to a homogenous milky colour.
- Use heavy duty slow speed mechanical mixer fitted with a suitable paddle for mixing the two components of the material.
- In a mixing vessel, slowly add the powder component in to the liquid under continuous stirring. Continue to stir thoroughly to achieve a lump free homogenous slurry.

3 APPLICATION

- It is important that any pipe inserts or sanitary fittings should have been fitted grouted with suitable products from the Kayra range well before taking up the application.
- Grout pipe inserts using Kayra GP-2 Grout.
- It is mandatory that all works of plumbing and sanitation must be complete before taking up application of Kayra 2K Flex 7002.
- The surface of application must be pre-wetted thoroughly with water & brought to a touch dry state. Take up the first coat application with a stiff nylon brush. Work well into the substrate, to ensure that all small undulations are completely filled with the coating.

Kayra 2K Flex 7002 - Water Proofing

- Provide and lay 50 gsm glass fibre mesh over the angle fillet when the first coat is still wet.
- 6 to 8 hrs after completion of first coat, take up second coat application in a direction perpendicular to the first.
- Complete the application and leave to air cure for 3-5 days. A moist hessian cloth can be kept over the coated surface to protect it from the effect of direct sunlight, in case of bathrooms and internal areas, leave the coating without water curing for 3-5 days at least.
- In new bathrooms, typically, Kayra 2K Flex 7002 must be applied all over the sunken slab portion and upwards over the masonry walls up to a height of 6-7 feet, i.e. Over the splash zone of shower, etc. to ensure complete waterproofing.
- For vertical walls in bathroom ensure internal plaster with Kayra LW1 Plus, Apply 2 coats of Kayra 2K Flex 7002 on all over or shower area, sprinkle the coarse, quartz sand while the second coat is still wet. This will provide key for subsequent tile adhesive materials.

4 GENERAL WATERPROOFING AND WATERPROOFING OF WATER TANKS

- General waterproofing if applied in areas exposed to foot traffic, it must be protected with a screed overlaid, during the application itself.
- When coating for internal walls of water tanks, sprinkle coarse sand after second coat on wet coating to facilitate anchoring for upcoming protection plaster.

Precautions & Limitations

- Do not part mix. Mix the entire quantity of both the components at one go.
- Do not dilute.
- Always add powder to liquid to avoid lump formation.
- Do not cure by flooding with water.
- Cure the membrane with moist hessian cloths.
- Pond test for water tightness shall be carried out only after 3-5 days of complete and proper curing.
- Do not use on metal or wooden substrates, on bituminous coverings, to waterproof surfaces direct exposed to traffic and uncovered swimming pools.
- Additionally, for Bathrooms/Wet areas etc. The waterproofing coating should be done on levelled surface and not directly over bricks/blocks walls. The brick/block surface and joints should be levelled with thin coat of polymer modified mortar. The concealed plumbing/electrical conduits area should be cleaned and packed appropriately with Polymer Modified Mortar.

Technical Information

PROPERTIES	TEST METHOD	RESULTS
Nature & Mixing ratio	...	2 component cementitious coating (1 part polymer & 2 part powder)
Pot life of the mix @30°C	...	40 minutes
Elongation at break	ASTM D 412:2016	50% minimum
Adhesion strength	ASTM D 7234:2019	1.0 N/mm ²
Water Vapour Transmission	ASTM E 96:2016	0.3 Perms
Crack bridging	EN 1062-7:2004	No cracking up to 1 mm
Water Permeability	EN 12390-8:2019	Passes 5 bar positive water pressure

Kayra 2K Flex 7002 - Water Proofing

Theoretical Coverage*

The approximate coverage per pack at even consistency (DFT of 1 mm thickness) is as follows:

PRODUC DETAILS	COVERAGE
1 kg polymer + 2 kg Powder	1.65-1.7 m ²
3 kg polymer + 6 kg Powder	4.9-5.2 m ²
5 kg polymer + 10 kg Powder	8.3-8.7 m ²
10 kg polymer + 20 kg Powder	16.5-17.4 m ²
30 kg polymer + 60 kg Powder	49.5-52 m ²

*Coverage may vary depending upon the nature and texture of the substrate.

Packaging

30 kg & 90 kg

Shelf Life & Storage

- Shelf life is 12 months from the date of manufacturing.
- Store in shed, protecting from direct sunlight and away from extreme temperature.
- In extremely hot temperature conditions, store in a temperature-controlled environment i.e. less than 30°C.

Health & Safety

- Kayra 2K Flex 7002 is alkaline and should not come into contact with skin or eyes.
- Avoid inhalation of dust during mixing.
- Gloves, goggles and dust masks should be worn, during mixing and handling the product.
- Any contact to eyes should be washed immediately with clean water and seek medical advice

Other Products Categories available

Kayra Corporation Private Limited brings you the widest range of Construction Chemicals



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