



# NUVOCO ZERO M 2K

## CEMENTITIOUS TWO COMPONENT WATERPROOF COATING

### DESCRIPTION:

NUVOCO ZERO M 2K is a high-performance two-component acrylic cementitious, polymer modified waterproof coating. Made with Portland cement, fine sand, special additives, and acrylic polymer, it ensures a strong barrier against water ingress and moisture with superior durability and crack resistance. Applied by brush or roller, it forms a seamless, elastomeric membrane on concrete and masonry surfaces.

### STANDARD COMPLIANCE:

Certified from CFTRI to confirm US-FDA regulations for safe drinking water

### FEATURES & BENEFITS

-  Higher Elongation
-  Higher Dry Film Thickness
-  Fibre Enriched
-  Suitable for Potable water storage tanks
-  Superior Waterproofing
-  Eco Friendly
-  Crack Bridging
-  Algae & Fungi Resistant



### AREAS OF APPLICATION

- Roof slabs, terraces, balconies, bathrooms, kitchens, and chhajjas.
- Brick walls, AAC blocks, hollow blocks, and concrete surfaces.
- Internal sides of domestic water tanks.
- Damp walls & moisture-prone concrete areas.

### TECHNICAL INFORMATION

Sr. No	Product Parameters	TEST METHOD	Test Results
1	Nature & Mixing Ratio	-	2 components - 1 Liquid : 2 Powder
2	Color / Visual	-	Grey
3	Density of mix, kg/m <sup>3</sup>	-	1600 -1700
4	pH of mix	-	10-12
5	Pot Life at 27 ± 2°C, Min	Visual observation & application	30 - 45
6	Elongation at break	ASTM D 412:2016	50% minimum
7	Adhesion strength	ASTM D 7234:2019	1.0 N/mm <sup>2</sup>
8	Water Vapour Transmission	ASTM E 96:2016	0.3 Permeance
9	Crack bridging	EN 1062-7:2004	Crack bridging up to 2 mm
10	Water Permeability	EN 12390-8:2019	Passes 5 bar positive water pressure
11	Food grade certification	USFDA - 175.300	Pass

Note - The values in above table are obtained in the Standard Laboratory conditions when tested properly by competent laboratory

## THEORETICAL COVERAGE

The approximate coverage per pack at even consistency is 6 - 7.5 sq.ft./kg for 1mm total thickness in 2 coats.

\*\* Coverage calculated at Standard Laboratory conditions. Coverage will vary depending on actual site conditions.

## APPLICATION INSTRUCTIONS

### STEP 1 - SURFACE PREPARATION:

- Clean the surface mechanically to remove loose particles, laitance, oil, grease, or curing compounds.
- Pre-wet the surface to achieve Saturated Surface Dry (SSD) condition before application.
- Fill cracks < 3mm with crack filler; repair cracks > 3mm and damaged areas with NUVOCO ZERO M MULTIPURPOSE LATEX OR ACRYLIC EXPERT.
- All vertical up-stands & junctions /corners are provided with 45° fillet with Polymer Modified Mortar (PMM), mixed with NUVOCO ZERO M MULTIPURPOSE LATEX EXPERT all around the periphery of the junction.

### STEP 2 - MIXING:

- Mixing ratio . Powder: Liquid = 2:1.
- Gradually add powder to liquid polymer using a heavy-duty, slow-speed mechanical mixer (300-400 RPM) for 4-5 minutes until a smooth, lump-free slurry is formed.
- Let the slurry rest for 5 minutes to release trapped air.

### STEP 3 - APPLICATION:

- Apply the first coat of NUVOCO ZERO M 2K on a clean, dry surface using a brush or roller. Ensure surface undulations are filled with the coating.
- Allow 6-8 hours drying, then apply the second coat in opposite direction for best results.
- Let it air cure for 2 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 2 days at least.
- Total coating thickness should be limited to a maximum of 1-1.2 mm.

### STEP 4 - PONDING TEST:

- Air cure the surface for 5-7 days (weather.dependent). Perform a 48-hour ponding test with 50 mm water depth after sealing all outlets.

### STEP 5 - PROTECTIVE SCREED:

- After a successful ponding test, apply a 10 mm cement-sand (1:4) screed with NUVOCO ZERO M IWC+, an integral waterproofing compound over the top membrane. If drainage pipes are present, maintain a minimum 20 mm screed thickness.

### STEP 6 - RE-PLASTERING & PUTTY APPLICATION (INTERIOR WALLS):

- Re-plaster interior vertical walls using 250g waterproofing compound per 50Kg cement. Allow to cure for 7 days, then apply 2 coats of NUVOCO ZERO M WALL PUTTY. Finish with interior primer and topcoat paint for a smooth, durable surface.

## SAFETY INSTRUCTIONS

- Always use rubber gloves, mask and protective eyewear during application, as exposure may cause itching or irritation.
- In case of contact with skin & eyes wash with plenty of water & seek medical attention.
- Keep away from children, food items, and direct sunlight.
- Harmful if swallowed; in case of accidental ingestion, seek immediate medical attention.
- Dispose of leftover product and containers responsibly as per regulations.
- Though it contains nontoxic materials but still care should be taken to avoid dust inhalation while mixing and handling.

## PRECAUTIONS & LIMITATIONS:

- Mix both components at once; do not mix partial quantities.
- Do not dilute the mixture.
- Always add the powder component to the liquid to prevent lumps.
- Conduct a ponding test for watertightness only after 3-5 days of complete curing.
- Do not apply on metal, wood, bituminous coverings, surfaces directly exposed to traffic, or uncovered swimming pools.
- For bathrooms and wet areas, apply the waterproofing to a levelled surface, not directly to brick/block walls. Level the brick/block surface and joints with a thin coat of polymer-modified mortar.
- The concealed plumbing/electrical conduits area should be cleaned and packed appropriately with Polymer Modified Mortar.

**PACKAGING** – 15 Kg (5 kg liquid & 10 kg powder)

## SHELF LIFE AND STORAGE:

12 months for sealed pack when stored under cover & out of direct sunlight. Protect from extremes of temperature.



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