





NUVOCO ZERO M MULTIPURPOSE ACRYLIC EXPERT

ADVANCE ACRYLIC EMULSION FOR BONDING, REPAIR & WATERPROOFING

DESCRIPTION

NUVOCO ZERO M MULTIPURPOSE ACRYLIC EXPERT is an UV resistant acrylic compound that is the best suited for external applications including waterproof slurry coating on the concrete surface to help extend its longevity.

FEATURES

-  Provides Excellent Bond
-  Maximum Durability
-  Improves Waterproofing Properties
-  Abrasion Resistance



AREAS OF APPLICATION

- Roof slab, parapets, terraces, balconies.
- Water tanks & swimming pools.
- Basements, retaining walls, tunnels etc.
- Repair & rehabilitation of general concrete structures, brick masonry, plaster repairs.
- Areas prone to corrosion and salt attack.

TECHNICAL INFORMATION

Sr No	Properties	Results
1	Nature	Milky white, translucent, free flowing liquid
2	Odor	Slight / faint
3	Solubility	Miscible
4	pH value	7 - 10
5	Chloride Content, %	< 0.001
6	Solid Content, %	> 30% ± 1
7	Specific gravity	1 - 1.05

Sr. No	Parameters	Results
Mechanical Properties (Mortar 1:3 Modified Mortar)		
1	Compressive strength as per IS 516- 3 days, Mpa 10% dosage, 15% dosage	9.2, 7
2	Compressive strength as per IS 516- 7 days, Mpa 10% dosage, 15% dosage	14.4, 14.6
3	Flexural strength - 28 days, Mpa 10% dosage, 15% dosage	1.95, 2.5
4	Permeability test	Passes
Performance Properties (As a Coating)		
1	Pull off strength (1: 1.5; Acrylic: cement), Mpa	1.13
2	Bond strength - 14 days as per ASTM C882-87 (ASTM C 1042/1059)	1.9
3	Coverage - (1: 1.5; Acrylic: cement) waterproofing coat (2coats) with glass fibers	1.5 m ² - 1.6 m ² / kg
4	Coverage - (1: 1.5; Acrylic: cement) waterproofing coat (2coats) without glass fibers mesh	1.70 m ² /kg
5	DFT of waterproofing coat, two coats	Up to 1.2 mm

Note - The values in above table are obtained in the Standard Laboratory conditions when tested properly @27°C ± 2

METHOD OF APPLICATION

STEP 1 - SURFACE PREPARATION:

Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance and dust. Repair the concrete spalled portion by suitable mechanical means, Wet the surface before application. Remove all the loose scales and corrosion deposits and clean the corroded rebars. Reinforced steel must be primed with bonding agent immediately after cleaning.

STEP 2 - APPLICATION:

Areas of Application	Mix (NUVOCO ZERO M MULTIPURPOSE ACRYLIC EXPERT: Cement) by weight	Method of Application
As Waterproof Coating (exterior)	1: 1.5*	• Clean the surface thoroughly & make it Saturated Surface Dry (SSD). • Apply first coat with a brush. . For smooth consistency, always add cement to NUVOCO ZERO M MULTIPURPOSE ACRYLIC EXPERT in recommended ratio. • Apply and unroll woven glass fiber cloth evenly on the wet coating before it dries out. • Using a nylon brush, apply second coat over the glass fabric. • Allow 4-6 hours of air drying before application of third slurry coat in perpendicular direction. • Apply polymer modified plaster of 15-20mm thickness over the coating.
As Bond Coat	1: 1.25 to 1.5	• Clean the surface thoroughly & make it Saturated Surface Dry (SSD). • For smooth consistency, always add cement to NUVOCO ZERO M MULTIPURPOSE ACRYLIC EXPERT in recommended ratio. • Apply first coat with a brush, • Once the coat is sticky, start applying plaster or concrete according to requirement. If the slurry dries out, it must be recoated before any further application. • Avoid puddling of the slurry coat.
As Rebar Coat (reinforcement)	1: 1.5 to 2	• Rusted reinforcement must be thoroughly scraped by suitable tool. • Clean the surface thoroughly & make it Saturated Surface Dry (SSD). • For smooth consistency, always add cement to NUVOCO ZERO M MULTIPURPOSE ACRYLIC EXPERT in recommended ratio. • Apply single coat of prepared mix by brush over the rebar or reinforcement.
As Repair Mortar/ Render / Crack Repair Mortar	50 kg cement + 150 kg zone II Sand + 10 litres NUVOCO ZERO M MULTIPURPOSE ACRYLIC EXPERT (1:5:15)	• Clean the surface thoroughly & make it Saturated Surface Dry (SSD) and pre-wet. • 10 litres NUVOCO ZERO M MULTIPURPOSE ACRYLIC EXPERT to be mixed with pre-measured water for 50 kg of cement. Add water for required consistency. • For smooth consistency, always add cement to NUVOCO ZERO M MULTIPURPOSE ACRYLIC EXPERT in recommended ratio. • Bond coat must be applied uniformly before repair mortar application. • While bond coat is sticky, apply repair mortar in thickness of 10-20mm at a time. • Build up the required thickness accordingly as per the profile. • Curing should be done as per guidelines mentioned in literature.

*Note: Trials are recommended to optimize mix design

STEP 3 - CURING:

• Allow the first coat to air cure for 4.6 hours before applying 2nd coat. • Ensure to minimize rapid surface drying due to heat & water evaporation for next 72 hours by covering with polythene sheet or dry hessian cloth. • Curing is recommended only after 24 hours of final coat application. It should be moist curing like sprinkling of water & doesn't require continuous wet curing / ponding. • Following the moist curing, NUVOCO ZERO M MULTIPURPOSE ACRYLIC EXPERT coating should be allowed to air cure for 3 days before submerging it in water.

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.

PRECAUTIONS & LIMITATIONS:

- Do not use as bonding coat once the coat dries.
- Recommended mixing ratios to be followed to achieve desired results.
- Clean tools and tacks immediately with water before it dries.
- The topping mortar must be applied on the wet slurry. If the slurry dries out, it must be recoated.

PACKAGING - 1L, 5L, 10L, 20L

SHELF LIFE AND STORAGE:

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



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DURAGUARD

ZERO M

