

NUVOCO ZERO M ROOF SHIELD

ADVANCED ACRYLATE PU WATERPROOF COATING FOR ROOFS & PARAPET WALLS.

DESCRIPTION

Nuvoco Zero M Roof Shield is a single component monolithic waterproof coating for roofs and parapet walls that offers protection against water ingress. Zero M Roof Shield is based on Acrylate PU hybrid emulsion technology reinforced with nano fibre. The flexible waterproof membrane provides superior crack bridging and long-lasting protection for roof surfaces. Nuvoco Zero M Roof Shield provides dual benefits of waterproofing as well as surface temperature reduction.

STANDARD COMPLIANCE / SPECIFICATION

Meet the ASTM D6083 M - Type II standard specification

FEATURES



Crack Bridging



Up to 10°C* Surface Temperature Reduction



Self Priming



Waterproofing



Highly Flexible



Eco Friendly



Excellent Durability

*Tested under standard conditions

AREAS OF APPLICATION

• Over brick-bat coba, concrete screeds • Roof/Terraces, Flat & Slope • Parapet Walls

METHOD OF APPLICATION

STEP 1 - SURFACE PREPARATION:

- Prepare the surface by cleaning, washing and removing dust, dirt, oil, grease and loose particles.
- Existing roof systems to be inspected and damaged areas must be cut & repaired with a polymer modified mortar using NUVOCO ZERO M MULTIPURPOSE LATEX EXPERT, 10% by weight of cement.
- Ensure minimum roof slope should be maintained in 1:100 and surface must not be visibly wet during the application of NUVOCO ZERO M ROOF SHIELD.

STEP 2 - APPLICATION PROCEDURE (by brush/roller):

- Stir well prior to application and apply self-priming coat of NUVOCO ZERO M ROOF SHIELD with 50% dilution of water to achieve coverage of 8-10 sq. m/litre'.
- Apply 2 coats of NUVOCO ZERO M ROOF SHIELD (without dilution) with a forced coverage of 2.2.2 sq. m/litre/coat'.
- It is recommended to use a 45 GSM glass fibre mesh or geo textile membrane of suitable size to cover angle fillets, rainwater outlets and repaired cracks when the first coat is still wet.

PRECAUTIONS & LIMITATIONS:

- NUVOCO ZERO M ROOF SHIELD should be applied between the temperature of 10°C to 40°C.
- Allow drying for 3-4 hrs after application of each coat.
- Allow the system (of 3 coats including self-priming coat) to air cure for minimum 5 days.
- To ensure full waterproofing of the roof, it is recommended to apply thorough coating of parapet walls.
- Do not apply if rain is expected within 48 hrs of application.
- To achieve recommended DFT use forced coverage as mentioned in application procedure.

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.



TECHNICAL INFORMATION

PHYSICAL PROPERTIES @ 27 ± 2°C

Property	Typical Result
Physical Appearance	White Thixotropic material
Application temperature	10°C to 40°C
Foot traffic	After 5 days
Ponding Test	After 120 hrs
Self Curing time	5 days

Sr No	Parameters*	Test method	Requirement (ASTM D 6083 Type II)	Zero M Roof Shield
1	% Solid Content	ASTM D 1644	>50	60.27
2	Brookfield Viscosity @30 RPM (RV06) - CPs	ASTM D 225	-	15470
3	Specific Gravity (gm/cc)	ASTM D 1475	-	1.31
4	Initial Elongation at Break % (7 days)	ASTM D 412	Min 100	240
5	Crack bridging (mm)	EN 1062-7	-	1.7
6	Tensile strength N/mm ² (7 days)	ASTM D 412	Min 1.4	1.8
7	Tear Strength - N/mm ² (7 days)	ASTM D 624	>21	23
8	Pull off adhesion strength @20mm (N/mm ²) (7 days)	ASTM D 4541	-	1.75
9	Hardness (Shore A)	ASTM D 2240	-	73
10	WFT (Micron) in 2 Coats	Internal	-	650-850
11	DFT (Micron) in 2 Coats	Internal	-	450-650
12	Water Swell ability, 72 Hours, %	ASTM D 471	<20	1
13	Reduction in Surface Temperature (°C)	Internal	-	10

*The values in the above table are obtained in the controlled Lab conditions when tested properly by competent laboratory

COVERAGE

- Self-Priming: Dilute NUVOCO ZERO M ROOF SHIELD with water in the ratio 2:1 as Self Priming Coat with coverage approx. 8-10 sq. m/litre'.
- Waterproof Coating: Apply undiluted NUVOCO ZERO M ROOF SHIELD in 2 coats perpendicular to each other at 2-2.2 sq. m/litre/coat at forced coverage.

PACKAGING: 4L, 10L & 20 L

SHELF LIFE AND STORAGE

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

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

DISCLAIMER: Surface temperature reduction may not be 10°C for tinted variant.

*(Coverage may vary depending on texture & porosity of the substrate)

Note: The information supplied in this datasheet is based upon extensive experience and is given in good faith to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise.

 Toll free: 1800 345 6666 |  Whatsapp 'NUVOCO' to 98300 17272

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