

JPL TERRASHIELD HYBRID

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A durable base coat that levels undulations and prepares rough surfaces.



TECHNICAL ADVANTAGES

- Crack - Resistant
- Crack Bridging & Flexible
- Fire Retardent
- Cost & Time Efficient
- Eco-Friendly
- Ready-to-Use
- No Curing
- Paintable Properties
- Anti-Fungal

PACKAGE AVAILABLE

Available in Transparent and Pigmented Format

Shelf Life - 12 Months

Color - Clear/ Pigmented



20 KG Bag



30 Kg Bucket

APPLICATION PROCEDURE

Note:

- Load the JPL Terrashield Hybrid on Mivan, Pre-cast Construction Cement/Gypsum Plastered Walls or Pre-painted walls with a trowel or roller in 2 coats up to a maximum thickness of 3 - 3.5 mm
- Refer to the next page for 45 GSM Nylon Mesh Applicability.

Procedure to follow for Application:

- Apply the first coat of Terrashield & allow it to dry for at least 10 to 12 hours.
- Apply 45 GSM Nylon Mesh while the first coat is wet
- Apply the second coat of Terrashield with a roller or a trowel.
- Remove the excess material with emery paper (no. 320) by light sanding vertically and horizontally to get a smooth, seamless surface.
- The surface is ready to be painted within 96 hours after completion of the second coat.

NOTE:

- First fill cracks, then apply wall coatings.
- For AAC Blocks and precast panels with a width of less than or equal to 2 ft., embed a 45 GSM nylon mesh across the surface between the first & second coat while the first coat surface is wet.
- On Dry Wall Joints/Pre-cast Joints/ Construction Joints in Mivan embed a 45 GSM mesh with a maximum 150 mm width on the joints covering the joint area completely, between the first coat & second coat while the first coat surface is wet.
- On AAC Blocks, Drywall Pre-cast joints, etc., the mesh must be terminated on the ceiling up to 100 mm (only if the joint terminates at ceiling level).
- Overlapping of the mesh must be avoided on the vertical joints of the mesh.
- On all corners and joints of walls, beams, columns and ceiling, the mesh has to be overlapped to a width of at least 100 mm.
- Only Premium Emulsion must be used for the interiors over Terrashield, and only Anti-Fungal Emulsion must be used for the exteriors over Terrashield where the sub-sub-strate is of AAC Blocks, whether plastered with Gypsum or sand-cement mortar (Interiors or Exteriors) or Dry Walls or Walls with joints.
- On other substrate surfaces, such as MIVAN, RCC, and Cement Plastered (on Mivan/Red Bricks), you may use any paint over Terrashield. Paints may include OBD, Internal/External Emulsion, Premium Emulsions, etc.
- The JPL Terrashield Hybrid properties are such that after application, the material may sink or form bubbles, which may lead to slight 0.5 -1mm undulations on the surface. Sinking is due to the increment of cracks in the substrate or the sub-substrate. Bubbling is due to the trapped air expanding. This does not constitute product failure. Note: In the above-mentioned event, JPL Terrashield Hybrid is to be applied again only on the localized areas.
- Breaking of 45 GSM nylon mesh does not constitute product failure, but signifies other serious structural and/or construction issues.

NABL TEST RESULTS

Carried out as per ASTM Standards by SriRam and Eurofin Labs

Class 1 or A	Fire Retardant Surface rating
5.6 MPA	Compressive Strength
7.5 MPA	Tensile Strength
5.1 MPA	Flexural Strength
28% Absorption	after submerged for 24hrs.
1.1 MPA	Pull of Strength

COVERAGE

DESCRIPTION	COATS	THICKNESS	COVERAGE / 20KG
Directly on AAC Blockwork with Mesh	Two	3.00 to 3.50 mm	40 - 45 sq. ft.
On RCC Surface	One	1.00 to 1.25mm	75 - 90 sq.ft.

TECHNICAL DETAILS

Function	Base levelling coat to correct undulations
Type	crack bridging Base Coat
Application Thickness	2.5 – 3.5 mm
Primary Use	Surface levelling, undulation correction
Surface Compatibility	AAC, Mivan, RCC, Cement, Precast, Drywall
Waterproofing Role	Moisture-resistant levelling layer
Crack Resistance	Flexible enough for base movement
Paint Compatibility	OBD, Internal/External, Premium Emulsions
45 GSM Nylon Mesh Usage	Required at panel joints and high-stress zones
Ready-to-Use	Yes
Drying Time Before Painting	96 hours
Coverage (per 20 kg)	40 – 90 sq. ft. (range given is for different surfaces, coats and dimensions, please refer to page no. 11 for the breakdown of the same)
Interior & Exterior Use	Yes
Viscosity with water 2:1	Not Possible
Pot Life	3 hours
Volatility of Chemicals Detection Test for presence of 28 Carcinogenic Chemicals	Absent
Flame Spread and smoke developed Index (Test ASTM E84-2021 Standard test method for surface burning characteristics)	Class 1 as per IBC
Chloride, CO₂, SO₂, NO₂, Methane Test	No Gas is present in sample, indicating that the sample acceptable (BQL - Below Quantification Limit)