

ROOFTECT ADVANCED

High Waterproofing Performance and Insulating Coating for Roofs

ASTRAL

TRUBUILD™

TECHNICAL DATA SHEET VER NO. N.1

TRUBUILD ROOFTECT ADVANCED is a single-component, fibre-reinforced waterproofing system with a unique acrylic-based formulation that provides an excellent barrier against water and heat. It forms a seamless waterproofing membrane with outstanding elongation, superior crack-bridging ability, and high reflectance. As a result, it delivers an exceptional waterproofing coating system with high durability.

FEATURES & ADVANTAGES



**REDUCES SURFACE
TEMPERATURE
UPTO 10C***



**CRACK BRIDGING
UPTO 3.5 MM**



**ELONGATION UP
TO 380%**



LOW VOC



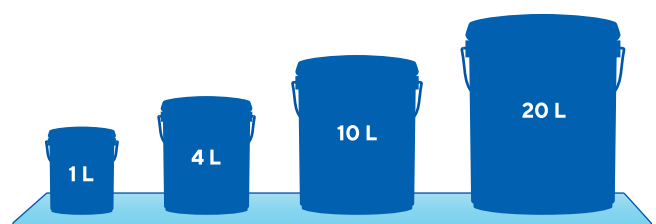
LEAD-FREE

- Excellent waterproofing system
- Excellent elongation up to 380% & good crack-bridging ability up to 3.5 mm
- Single component, easy-to-use
- Durable coating
- Excellent weather resistance
- Exhibits positive hydrostatic pressure up to 7 bars.
- Good UV resistance
- Good breathability
- Excellent adhesion to substrate
- Water-based hence eco-friendly

AREAS OF APPLICATION



PACKAGING



• Brick bat coba • Sloppy roof / flat roof • Cement mortar screed • China mosaic & tiled roof embedded in RCC • For miscellaneous surfaces, please contact the Trubuild Technical Service Team

NOTE - For China mosaic and other roof tiles, use Trubuild Primesure Premium

METHOD OF APPLICATION

SURFACE PREPARATION: For old structures, remove all loose, unsound materials, oil, dirt, debris, existing paint, waterproof coatings, or any other surface contaminants from the substrate.

Fill all existing cracks up to 5 mm by cutting a "V" groove and filling it with Trubuild Crack Fill Paste. For cracks larger than 5 mm, use a polymer-modified mortar made with Trubuild SBR 333 or Trubuild Buildcrete.

Provide an angle fillet at the wall-slab junction using Trubuild SBR 333 or Trubuild Buildcrete (at 10-12% of cement weight in mortar).

Repair all patches and joints with polymer-modified mortar to ensure the surface is sound.

A proper slope of 1:80 to 1:100 must be maintained on the substrate to ensure complete discharge of runoff water. There should be no stagnant water on the roof due to surface undulations.

Ensure that all penetration points, mechanical equipment, HVAC units, and solar panels are mounted on upstands, rounded off with an angle fillet, and all gaps are sealed using Trubuild Sealmaster Flexi Sealant. For China Mosaic and other roofing tiles such as ceramic, marble, clay, and granite, ensure the surface is properly repaired, bedded, primed, and grouted before applying Trubuild Primesure Premium.

Note: Application is **not recommended** on Kota Stone, Kadappa Stone tiles, Mud Phaska roofs, or Mangalore tile surfaces.

Also, ensure there are sufficient drainage outlets to allow complete water discharge from the roof. Gaps around pipe inserts should be properly sealed using **Trubuild Boretite**.

Application: Before applying Trubuild Rooftect Advanced, a self-priming coat (33% water dilution) should be applied to the substrate. Ensure the substrate is in a Saturated Surface Dry (SSD) condition before priming. The approximate coverage is 5 m²/ L. Allow to dry for a minimum of 4–6 hours

If the substrate is smooth or requires enhanced bonding, **Trubuild Primesure Premium** is recommended as a primer, especially for China mosaic tile surfaces. It should be applied **undiluted using a brush** at a coverage of **11-13 m²/ L/ coat**.

After the primer coat has dried, apply **two coats of Trubuild Rooftect Advanced**, in perpendicular directions, with an interval of 4–6 hours between coats. Maintain a **forced coverage of 0.93 sq. m/L**.

Allow the system to **air cure for a minimum of 7–10 days** before exposing it to water or foot traffic.

PRECAUTIONS

- Ensure proper use of materials to achieve the desired performance.
- Before applying Trubuild Rooftect Advanced, ensure that the previous coating is completely removed and the surface is thoroughly clean.
- Mix thoroughly using a low-RPM paddle mixer after opening the container to achieve a homogeneous mix.
- Avoid application during intermittent rain or on surfaces with stagnant or runoff water.
- Conduct a ponding test only after a minimum of 7–10 days of air curing.
- Ensure that the coated roof surface is free from any stagnant water.
- Do not use Trubuild Rooftect Advanced for water-retaining structures.
- Avoid application if the substrate temperature is below 10°C or above 35°C. The Relative Humidity (RH) should not exceed 65%.
- Use all the material from the container in a single use once opened, to avoid contamination.
- Do not mix water or any emulsion with the product, as this may reduce the durability and performance of the coating.
- Always use a brush or roller for coating application.
- Do not expose the material to direct sunlight. Store in a cool place and ensure the lid is closed tightly to prevent skin formation.
- Withdraw only the quantity of material that can be used within 15–30 minutes.
- The coating should be applied to a sound and stable cementitious substrate. Always use an air blower (not a hot air blower) to remove surface dust before starting the application.
- Do not use primers or repair materials from other manufacturers, as they may compromise the system's performance.
- Do not skip any of the prescribed application steps, as this may compromise performance or lead to system failure.
- For miscellaneous or non-standard surfaces, consult the Trubuild Technical Services Team for appropriate recommendations
- Always use clean brushes and rollers to prevent contamination, as foreign particles can cause peeling and damage the waterproofing layer.
- Follow the recommended coverage rates strictly for optimal performance.
- Read all guidelines carefully and consult the Trubuild Technical Sales Representative before starting the application
- If the surface has excess moisture, blistering or bubbling may occur with any liquid-applied membrane coating.
- Do not place stones, paver blocks, or earthen pots on the coated surface.
- Ensure the substrate is fully cured as per standard construction practices before coating.
- Coat both inner and outer faces of the parapet wall with Trubuild Rooftect Advanced.

TECHNICAL PROPERTIES

S.NO.	PROPERTIES	STANDARD	ASTRAL TDS
1.	Crack-bridging Ability (mm)	EN 1062-7(A):2004	3.5+/-0.35
2.	Tensile strength (N/mm ²)	ASTM D 412-2016	2.3+/-0.3
3.	Elongation (%)	ASTM D 412-2016	Up to 380
4.	Pull-out adhesion(N/mm ²)	ASTM D 7234:2022	1.6+/-0.2
5.	Water Vapour Transmission, (g/m ² /day)	ASTM E 96:2024	35
6.	UV Resistance	ASTM D 4587:2011	Pass
7.	Anti-Carbonation	In House	Good
8.	SRI	ASTM E 1980-19 EN 12898:2019 EN 673:2011 EN 410:2011	Excellent
9.	Water Permeability up to 7 bars	EN 12390-8:2019	NIL
10.	Surface temperature reduction		Up to 10° C
11.	Dry Film Thickness (microns)		450-460 microns

COVERAGE

- **Trubuild Rooftect Advanced** as a primer (33% water dilution): **5 m²/L/coat**
- System coverage including self-primer and two undiluted coats – 16-19 m²/ 20L
- **Trubuild Rooftect Advanced** (as waterproof coating): **2 m²/ L/ 2 coat**
- **Note 1:** Coverage will vary depending on the porosity and undulation of the substrate.
- **Note 2:** Comparative thermal performance of Trubuild Rooftect Advanced on roofing:
 - Roof surface temperature was recorded using a laser-guided, infrared non-contact thermometer between **1:00 PM and 3:00 PM**. The degree of surface temperature reduction may vary based on the condition of the existing surface, site location, roof pitch, and weather conditions.
- **Note 3: Trubuild Primesure Premium** (used as a primer without dilution): Coverage is **11-13 m²/ L/ coat**

HANDLING & STORAGE

HANDLING: Follow all mandatory and recommended industrial hygiene practices during handling and application. For further details, please refer to the Material Safety Data Sheet (MSDS).

STORAGE: Store the product in a cool, dry place, away from direct sunlight, in its original, properly sealed container.

SHELF LIFE

36 months from the date of manufacturing

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