

TRUBUILD ROOFTECT PRO

Acrylic Waterproof Coating with Heat Reflection



TECHNICAL DATA SHEET VER NO. 1.1

TRUBUILD ROOFTECT PRO is single-component, fiber reinforced, acrylic-based, waterproofing liquid-applied membrane coating with selected synthetic fiber and polymer which makes it the ultimate waterproofing system. After curing, it forms a seamless film having high strength, flexibility, durability, weather resistance & an excellent waterproof coating system.

ADVANTAGES



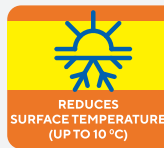
EXCELLENT BREATHABILITY



ELONGATION UP TO 350%



FIBRE REINFORCED



REDUCES SURFACE TEMPERATURE (UP TO 10 °C)

- Excellent waterproofing system
- Good bond strength
- Excellent resilience to thermal stress
- Durable coating
- Good weather resistance
- Reduces surface temperature up to 10°C



AREAS OF APPLICATION



Waterproofing of roofs with

- Brick Bat coba
- Cement mortar screed
- China mosaic & other roof tiles embedded in a cementitious substrate
- Flat roof / sloppy roof and for miscellaneous surface contact Trubuild technical service team

NOTE - For china mosaic and other roof tiles use Trubuild Primesure Premium Primer.

AVAILABLE PACKING



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HOW TO USE

SURFACE PREPARATION

- Remove the loose and unsound materials, oil, dirt, debris from the substrate. Remove all the previous waterproofing coatings, if any, by mechanical means to avoid failure of any subsequent upcoming waterproofing coatings.
- Fill all the existing cracks up to 5 mm by making "V" groove and then filling it with Trubuild CFP 425 and for cracks larger than 5mm use Trubuild WPL 333/Trubuild BWP 222 for making polymer modified mortar and then fill it.
- Then make angle fillet at wall and slab junction with the help of Trubuild BWP 222 (10-12% of cement weight in mortar) and repair all the patches and joints with Trubuild Non-Shrink Grout HS and make sure the surface becomes sound.
- Suitable slope of 1:80 to 1:100 should be maintained on the substrate to discharge run off water completely. Stagnant water due to undulation in the roof surface must be highlighted and repaired with polymer modified mortar. Ensure that all the penetration points, mechanical equipment, HVAC & solar panels are suitably placed on the upstand and rounded with angle fillet and Resipro High Strength Hybrid Sealant.
- China mosaic and other roofing tiles like ceramic, marble, clay, granite, etc. should be firmly bedded, primed and grouted with Trubuild Primesure Premium before application of Topcoat.
- Mix the Non Shrink Cementitious Grout/ Trubuild Tile grout with Trubuild BWP 222 and make the desired consistency to fill the joints & cracks up to 5 mm.
- Fill the Tile joints with spatula or putty knife and buffing and cleaning should be done within 1-2 hrs for removal of any residue after work. Cracks up to 5 mm over china mosaic roof tiles surface must be cut and filled with Trubuild CFP 425.

APPLICATION

- Before application of Trubuild Rooftect Pro, a self-primer coat (33% water dilution by weight) on the substrate should be applied. During self-priming it is to be ensured that the substrate is to be in saturated dry condition (SSD).
- The coverage of primer coat will be approx. 8-10 sqmt. per L depending upon the substrate condition & allow it to dry minimum for 4-6hrs.
- If the substrate is smooth or needs to have more bond strength, then Trubuild Primesure Premium can be recommended as an expert solution with coverage of 120-150sqft/L/coat without dilution by brush. (For more information contact Trubuild technical services) After drying of primer coat, apply 1st coat of Trubuild Rooftect Pro horizontally without any dilution at the rate 1.85-1.95 sqmt. per L per coat.
- Allow the first coat to dry for min. 4-6 hours. During application of Trubuild Rooftect Pro first coat over joints a 45 to 50 GSM fibre mesh can be recommended as a sandwiched layer between first and second coat to enhance tensile properties of the coating.
- Then apply 2nd coat vertically without any dilution.
- Forced system coverage should be 0.93 sqmt. per L.
- Allow the system to air cure for a minimum 7-10 days.

TECHNICAL DETAILS

PROPERTIES	STANDARD	RESULTS
Appearance	IN HOUSE	Opaque, white colour
Solid (%)	ASTM D 1644:01	57±2
Elongation (%)	ASTM D 412:2016	>350
Crack bridging ability (mm)	EN 1062-7:2004	Up to 2
DFT (microns)	-	600 - 650
Tensile strength (N/mm ²)	ASTM D 412:2016	≥2
Density (gm/cc)	ASTM D 1475:2013	1.26±0.01
Pull of adhesion, (Mpa)	ASTM D 4541:2017	≥2
Anti-carbonation, R value@ DFT 0.65 mm	DIN EN 1062-6:2002	>60
Water vapour transmission (Gm/m ² /24 hr)	ASTM D 1653:13	>300
Water absorption (%)	ASTM D 471:16a	<10
SRI	ASTM E 1980-19 EN 12898 : 2019 EN 673:2011 & EN 410:2017	107
UV resistance	ASTM D 4587:11	Excellent
Alkali resistance	SS 5 Part G2-2003	No yellowing/ blistering
Water permeability @ 7 bar	EN 12390-8-2019	NIL

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ADDITIONAL INFORMATION

LIMITATIONS & PRECAUTIONS

- Prior to using Trubuild Rooftect Pro, ensure previous waterproofing treatment is completely removed and cleaned
- Avoid application of Trubuild Rooftect Pro, if the substrate temperature is less than 10°C or greater than 40°C. RH should not exceed 75%.
- Ensure proper consumption of material to achieve all the properties
- Mix well after opening container using low RPM surface with paddle mixture to get a homogeneous mix
- Avoid application in intermittent rains or on surface with standing/ runoff water
- Pond test should be conducted after air curing of the coating for minimum 7-10 days
- Ensure the coating applied on roof surface is free from any standing water
- Application of Trubuild Rooftect Pro should be avoided in any water retaining structure
- Consumption of all the material should done in a single go once it is opened to avoid any contamination in it
- Do not mix any emulsion or water to it as that will decrease the durability and performance of the coating
- Always use brush and rollers for coating application
- Do not keep material under direct sunlight. Always keep it in shade and close the lid for keeping it air tight to avoid skinning.
- Take out the sufficient quantity of material from the container which you can consume within 15-30 mins.
- Always use air blower (don't use hot air blower) before commencement of coating to remove the dust.
- Do not use other manufacturers primers or other material which is used for repairing and priming as it will not confront any type of performance which we are providing with our product and system.
- Do not skip any one of the systems prescribed for the application of Trubuild Rooftect Pro as that may decrease the performance and even lead to failure of the entire system.
- For miscellaneous surface, always contact Trubuild technical service team for guidance.
- Always use clean brush and roller to avoid foreign material intrusion in the coating which may get peeled off taking waterproofing coating with it.
- Application of the Trubuild Rooftect Pro should be as per the coverage mentioned above for minimizing entrapped bubbles and for better bonding with substrate.
- Please read all the guidelines and always try to get in touch with our Trubuild technical sales person before starting any type of application to avoid any waterproofing system failure.
- If the surface has excess moisture then there is possibility of blister formation in case of all liquid membrane coatings.
- Stone, paver blocks, earthen pots, etc., should not be kept on waterproof coated terrace surfaces.
- Substrate should be fully cured as per standard construction practice before application of coatings.
- Both sides of the parapet wall should be coated with TruBuild Rooftect Pro.

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FEATURES

- Provides excellent waterproofing
- UV resistance
- Good breathability
- Does not require any additional protection
- Excellent adhesion to the substrate
- Water-based hence eco-Friendly
- Excellent elongation & good crack-bridging property
- Excellent SRI property

HANDLING PRECAUTIONS

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please refer the Material safety sheet

STORAGE

- Product should be stored in a dry place in its original, properly closed containers at temperatures between 2°C-40°C.
- Partially emptied container should be closed immediately.

POST APPLICATION

Conduct pond test after min. 7 days for max. 24 hrs. with 50 mm height.

SHELF LIFE

36 months from the date of manufacturing

COVERAGE

- Trubuild Rooftect Pro as a primer (33% water dilution, by weight) is 8-10 m²/L/coat
- Forced coverage system of Trubuild Rooftect Pro is 0.93 sqmt./L.

NOTE 1 - Depends upon the porosity & undulation of the substrate.

NOTE 2 - Comparative thermal performance of Trubuild Rooftect Pro on roofing : Temperature recorded from 1 pm to 3 pm of roof surface with the aid of laser guided infrared non-contact thermometer. The degree of surface temperature reduction will vary depending on the condition of the existing surface, site location, roof pitch and weather factor.

NOTE 3 - Trubuild Primesure Premium as primer without dilution coverage will be 120-150 sqft./L/coat."

SAFETY

- Avoid contact with eyes and skin and in case of contact with eyes, rinse thoroughly with water and consult a doctor.
- Wear suitable protective gloves and goggles/face protective during work.
- In case the product has been swallowed, seek medical advice immediately and present the pack label.

DISCLAIMER: This technical data sheet replaces all previous versions of it from the immediate effect. The information, and, in particular, the recommendations relating to the application and end-use of Astral Ltd, construction chemical products, are given in good faith based on our knowledge and experience of the products when properly stored, handled and applied under suitable favourable conditions in accordance with application instructions recommended in product technical data sheet. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. For the products on which company is offering warranty, please refer to warranty document to know entire terms and conditions. The same can be availed on request or from company website. The values mentioned in the above tables in technical data sheet are obtained in controlled lab conditions when tested properly by competent laboratory. Tolerance up to five to ten percentage on the lower side from the above values are allowable. Astral Ltd. reserves the right to change the properties of its products without notice. The end user of the product must test the product's suitability for the intended application and purpose. Astral Ltd will not bear any responsibilities on the product failure if it is wrongly positioned or if improper application methodology is adopted by the user or the applicator. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product technical data sheet for the product concerned, copies of which will be supplied on request. No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, customer is responsible for determining whether products and the information in this document are appropriate for the customer's use and for ensuring that the customer's workplace, and disposal practices are in compliance with applicable laws and other governmental enactments.



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