

TRU PU PURA 1K

Polyurethane Based Liquid Applied Waterproofing Compound

ASTRAL

TRUBUILD™

TECHNICAL DATA SHEET VER NO. N.1

Tru PU Pura 1K is a single-component, ready-to-use, pure polyurethane-based, liquid applied waterproofing membrane. It has excellent waterproofing properties and can be applied by brush & roller. It is ideal for waterproofing of terrace, roofs, balconies, bridges, podium and canals, etc.



FEATURES & ADVANTAGES



EXCELLENT BOND STRENGTH

- Single component, hence ready to apply.
- Liquid applied membrane, hence easy to use.
- Excellent waterproofing properties.
- Good crackbridging ability.
- Root resistant.



CRACK BRIDGING



EXCELLENT WATERPROOFING

- Excellent bond strength, hence good durability.
- Excellent adhesion to metal & concrete.
- Seamless coating, hence no joint.



READY TO APPLY

AREAS OF APPLICATION



- Waterproofing of balconies, terraces, sloppy roofs, bridges, etc.
- Waterproofing of podium, tunnels, deck area & canals, etc.

PACKAGING



METHOD OF APPLICATION

SURFACE PREPARATION

Surface preparation should be done by cleaning, removing dust, dirt, oil, grease and loose particles. Maximum permissible moisture content in concrete should be <5%. Higher humidity may modify the curing performance of Tru PU Pura 1K, which may affect the final finish. Repair the cracks with PMM using Trubuild SBR 333. In case of metal, remove rust from surfaces by using proper power tool to remove the rust & scaling. Surface should be free from oil, grease, dust and loose particles.

Priming: The concrete surface should be primed with Trubuild Primesure EPMI at an application rate of 80-100 sqft./L and then allow it to reach touch dry conditions. Consumption of primer may vary and it depends upon the substrate porosity.

Coatings: After opening the bucket, stir Tru PU Pura 1K with low-speed mechanical stirrer before use. Pour Tru PU Pura 1K to the primed substrate and spread with roller or brush. It is highly recommended to restrict maximum WFT of 0.5-0.6mm thickness in each layer. Allow it to cure for 24 hours and apply consecutive layer at same recommended thickness and consumption (not later than 48 hours).

Curing: Recommended air curing for at least 7 days for getting desirable properties.

TECHNICAL PROPERTIES

PROPERTIES	UNIT	STANDARD	RESULTS
Appearance	-	-	Opaque
Colour	-	-	Red, Grey, White (subject to availability)
Shore A	-	In house	60
Solid	%	ASTM C 836:2018	>85
Low temp, crack bridging @ 3.2 mm extension		ASTM C 1305:2016	No cracking
Adhesion in peel after water immersion	N	ASTM C 794:2018	26
Tensile strength	N/mm ²	ASTM D 412:2016	>2
Elongation	%	ASTM D 412:2016	>500
Density at @25°C	gm/cc	In house	1.45
Cure time		In house	7 days
Water vapour transmission	g/m ² day	ASTM E 96:2022	19.4
Resistant to water @ 5 bar pressure	mm	EN 1239-8:2019	Pass
Root penetration		CEN/TS 14416:2014	No root penetration

Confirms requirements of ASTM C 836:2018

PROTECTION SCREED

Use minimum 100/120 GSM geotextile fabric to lay over fully cured Tru PU Pura 1K as separation layer. Protect the coating with – 20/25 grade concrete screed at minimum thickness of 35 mm and at 1:100 slope toward drain outlet. Make angle fillet at the time of screed application using Trubuild SBR 333, polymer modified mortar at all junctions. Control joints shall be provided along the length and breadth of the entire screed area by using a saw cutting machine within 18-24 hours of application of the screed. The panel size of 3.25 m x 3.25 m is recommended with a maximum panel size of 15 m², or as specified by consultant/engineer. All joints shall be filled with Trubuild Sealmaster Flexi.

HANDLING PRECAUTIONS

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For more detail, please refer MSDS.

STORAGE

Container should be stored in dry and cool rooms. Protect the material against moisture and direct sunlight. Storage temperature should be 20 to 30°C. Products should remain in their original, unopened container.

CLEANING

Application equipment should be thoroughly cleaned after use with toluene/xylene but if it dries on the tool, the tool needs to be cleaned by mechanical means. Spillages should be absorbed with sand, vermiculite or similar substrates and be disposed in accordance with local regulations.

THEORETICAL COVERAGE

- Approx 1.5-1.6 KG to achieve 1 mm DFT persq.mtr.

NOTE: Coverage may vary due to porosity and undulation of the substrate.

SHELF LIFE

12 months from the date of manufacturing.