



TRU PU is a single component waterproofing Liquid membrane, elastomeric membrane, it is bitumen modified polymer PU based waterproofing system. PU waterproofing membrane gives excellent barrier to building facades from vapour, salts and water

APPLICATIONS

- Waterproofing of wet areas, foundations, basements, terraces, retaining walls, inverted roofs etc
- For waterproofing terrace garden and podium
- Other roof structures when protected from exposure to direct sunlight, for longer life

ADVANTAGES

- TRU PU is a single component liquid system and very easy to apply
- High elasticity ensures a permanently flexible barrier over a wide range of temperatures
- Outstanding resistance to oxidation and brittleness
- Gives better adhesion. Can be applied to a range of substrates
- Good crack bridging capacity up to 2 mm
- Good retention capacity

TECHNICAL DETAILS

PROPERTIES	STANDARD	RESULTS
Appearance	In House	Viscous Liquid
Colour	In House	Black after Drying
Specific Gravity at @25°C	IS:101 (P-1/S-7):1987	1.07 ± 0.02 g/cm ³
Viscosity at @25°C	ASTM D 2196	10000 ± 2000
Cure Time		24 Hour approx. (Complete Curing 7 to 10 days)
Tensile strength at Break	ASTM D 412	>1.5 N/mm ²
Elongation at break	ASTM D 412	≥ 600 %
Crack Bridging	InHouse	Up to 2mm
Shore A Hardness	InHouse	35 - 45
WFT	LDM	1000 - 1200 micron
DFT	LDM	500 - 600 micron

COVERAGE

- 1 sq mtr @ 1.1 to 1.2 kg of Tru PU in 2 Coats
- Coverage Depends on type of Substrate and its porosity.

HOW TO APPLY

- Clean the surface by manual & mechanical means, remove all the loose material or previous work done, make it free from any type of contaminants like oil, sand, debris etc
- Prime the surface with max. 20% water adding to Tru PU. Mix it till it becomes Homogeneous, then apply by brush or roller to the surface. The coverage will be approx. 80-90 sq ft per Kg. The coverage will depend on the substrate condition.
- Tru PU undiluted should be applied direct by brush to obtain a continuous unbroken film
- Two coats are required, second coat should be applied at right angles after the first coat has cured properly
- It must be protected from mechanical damage during construction or backfilling works
- Any damage may be repaired by spot application
- If a water flood test is to be run, the membrane should cure for a minimum of 10 days
- Tru PU is resistant to frost but adhesion will be weak if it is applied to frosted substrates/surfaces
- Application should be avoided if substrate temperatures are below 5°C or rain forecast. For any further technical information please contact the Astral Technical Services Department

TRUBUILD TRU PU

Waterproofing Membrane

TECHNICAL DATA SHEET

VER NO. 1.5



LIMITATIONS

- For Primer, the product should be diluted with water (20% maximum by weight, i.e. 4 kg of water for 20 kg of TRU PU at site to achieve a workable consistency)
- Water ponding test shall be done only, once the coating is fully cured for 10 days
- After full cure, This Product will be slightly tacky, hence it is recommended to use a separation layer such as geotextile or PE sheet, Then cover with a protection screed
- Outgassing is a naturally occurring phenomenon of concrete that can produce pinholes in subsequently applied coatings. The concrete must be carefully assessed for moisture content, air entrapment, and surface finish prior to any coating work. Installing the coating either when the concrete temperature is falling or stable can reduce outgassing. It is generally beneficial, therefore, to apply the embedment coat in the late afternoon or evening
- For optimum application, do not allow liquid TRU PU to be heated by direct sunlight or other heat sources
- Not suitable for permanent water immersion, hence not recommended for water-retaining structures such as RC tanks, swimming pools, water features, etc
- The 1st coat and 2nd coat of TRU PU should be applied without any dilution & only primer need to be diluted.
- During the curing process micro bubbles are formed. This is a product characteristic, which does not affect the protective properties. For this reason, it should be ensured that the material is not applied at excessive film thicknesses in one layer. Excessive film thickness may create bubbles
- The product can be applied by brush, roller or airless spray. Work well with a brush in difficult areas. Apply subsequent layers 24 hrs after the application of first layer
- If TRU PU has been exposed to UV light, its colour will be changed to yellow slightly without losing its physical properties but flow is possible due to temperature of sun light in open to sky condition.
- It is recommended to use a reinforced coating system with 45 gsm fleece or fibre net specially on the Joints/corners etc to increase its tensile property. however, the performance of a standard coating system is also excellent
- A screed needs to be laid on the finished system

CLEANING

Application equipment should be thoroughly cleaned after use with water but if dries on tool, applicator need to be cleaned by mechanical means. Spillages should be absorbed with sand, vermiculite or similar and be disposed of in accordance with local regulations.

STORAGE

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

HANDLING PRECAUTIONS

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product data sheets and the brochure "Hygienic precautions for handling plastics products".

SHELF LIFE

12 months from the date of manufacturing.

PACKING

1 kg & 20 kg

IMPORTANT: 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 Limited 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 as per standard. Astral Limited reserves the right to change the properties of its products. The end user of the product must test the product's suitability for the intended application and purpose. Astral Limited will not bear any responsibilities on the product failure if it is wrongly positioned or if improper application methodology 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 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 Customer's use and for ensuring that Customer's workplace, and disposal practices are in compliance with applicable laws and other governmental enactments.



ASTRAL LIMITED

Registered Office: 207/1, 'Astral House', B/h Rajpath Club, Off S.G. Highway, Ahmedabad-380059, Gujarat, India.
P: +91 79 6621 2000 | F: +91 79 6621 2121 CIN: U24295GJ2009PLC058120
E-mail: customercare@astraladhesives.com Website: www.astraladhesives.com



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