

ElastoWhitePU

ElastoWhitePU is hybrid polyurethane dispersion single coat ready to use product with excellent elongation, tensile strength & crack bridging. Upon curing it forms a thick, seamless durable film resulting good waterproofing system. It is ideal for use on vertical as well as horizontal surfaces. It is single pack, very economical and pollution free waterproof coating. Due to Hybrid Polyurethane and titanium, it has high opacity and white color, it offers excellent UV Resistance & Solar reflectivity. Gives cooling effect due to the reflective properties as it works at SRI110 Standards.

Principal Application

Waterproofing for roofs ranging from asphalt, asbestos, cement to concrete and terrazzo tiles. Recommended for both horizontal and inclined structures, waterproofing of roof slabs, terraces, balconies, sun shades, parapet walls, etc.

Product Advantages

- Good elongation as well as high tensile strength.
- Good adhesion strength with concrete/tile/china mosaic/masonry surface/brick bat coba/ ISP flooring.
- Hybrid Polyurethane based with high opacity and reflectance.
- Excellent water impermeability
- Anti-Carbonation Coating & UV stable product – does not yellowing.
- Excellent resistance to Carbon Dioxide, acid rain and alkali solutions.

Substrates

Nature of substrates: ElastoWhitePU waterproof membranes can be applied not only to concrete but also to wood and metal surfaces. With the latter a special primer is necessary.

Roof Pitches: the membrane can be applied for all roofs to any extent of slope.

Conditions of substrate: Concrete and cementations substrate are to be well compacted and at least 28 days old, with troweled finish. Wood panels or metal sheeting should be solidly fixed and cleaned. All surfaces must be clean, dry and free from dust or rust and oil residue.

Coverage

Coverage depends upon the nature of the surface to be applied. But on average, smooth surface will give approx. 30 Sq Ft per kg (First Coat) & 35 Sq Ft per Kg (Second Coat). Two coats of the product will give 300 microns dft.

Mechanical Protection

Roofs not subject to traffic: Fine mesh nylon sheet should be placed over the insulation before covering with washed gravel (15/30mm gauge) to a minimal thickness of 5cm. Where the thickness of the insulation is more than 5cm. Apply gravel to the same thickness as the insulation.

Roofs subject to traffic: Protection by prefabricated concrete slabs, using wedges made from small squares of ROOFMATE 20x20 cm to adjust levels and allow rain water to drain under protection. Protection by in-situ concrete screed: a 'KRAFT' paper protection should be placed over the insulation and topped with a concrete screed of 4 to 5 cm. thickness.

Health & Safety

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.



Inhalation: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

Eye Contact: Flush eyes with water for 15 minutes and call for medical help.

Ingestion: Cause nausea, vomiting and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

Skin Contact: Flush with water or soap and water till all traces have been removed. Seek medical attention if required.

Storage & Shelf life

Shelf life is 24 months in unopened container. Store away from sunlight and preferably below 40°C. storage should be frost protected.

Technical Data

Appearance	Viscous Liquid
Colour	White
Specific Gravity	1.25 + .10 (ASTM - D 1475-03)
Solid Content	63 + 5% (ASTM - D 1644-03)
Elongation @ Break	800% (ASTM - D 2370-98)
Viscosity (Spindle No: 7; RPM:10 25 C)	40000 to 60000 CPS (thixotropic)
Curing Time	Approx 24 Hours at 20°C Approx 2 Hours (ASTM D 1640-03)
Hardness Shore A	55 ± 5 (ASTM - D 2240-05)
Resistance to Temperature	Approx -30°C to +100°C
Tensile Strength N/mm ²	>3.5 (ASTM - D 412-98a)
UV Resistance	10,000 Hours no deterioration or color fade. (ASTM D 822)
SRI	110
Flash Point	Non-flammable
Chemical Resistance	Good
Insulation Properties	Good
Adhesion Strength N/mm ²	3.00 (ASTM - D 903-98)
Pull Off Test N/mm ²	2.704 (BS 1881:part 207:1992)
Water Vapor Transmission g/h-m ²	0.97 (ASTM E 96-095)

Warranty

The information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and our responsibility is limited to the quality of supplies with no guarantee of result in the field, as manufacturer has no control over site conditions or execution of work.

