

EABASSOC

PRODUCT INFORMATION

TPU Liquid Membrane

A high performance elastomeric coating which cures to a tough, flexible, rubber sheet which protects floors, walls, roofs and underground structures from penetration by water and water vapour. Conforms to ASTM C 836: "High Solids Content, Cold, Liquid — Applied, Elastomeric waterproofing Membrane"

APPLICATION INSTRUCTIONS

Surface Preparation

Remove dirt, grease and loose material. Destroy moss etc. with fungicide. Corroded metal surfaces should be treated with rust inhibitor after removing ALL rust. Abrade smooth metal and plastic surfaces to provide a 'key'. Vacuum up dust.

Apply TPU PRIMER onto all porous and friable surfaces; over plywood, chipboard, timber and metal (after removing old paint); and over old, hard asphalt.

Fill cracks, joints and holes with urethane caulking compound or with the coating itself. Pre-coat all seams, angles, fillets, overlaps, filled cracks and joints with TPU Primer followed by a thick application of the coating. Reinforce all repairs, fillets and other potential weak spots with glass fibre or polyester scrim bedded into the wet coating.

Before coating weak lightweight screeds or rough concrete, an overscreed of sand/cement, trowelled smooth, is advisable to provide a firm strong base for the waterproofing membrane.

If movement cracks or expansion joints are present, these will need special treatment involving the use of "slip tape". (Apply for special instructions).

Application

Substrates must be dry and must not contain any hidden moisture.

TPU Primer should be allowed to cure for 24 hours, after which it should be overcoated within 2 days.

Apply TPU by brush, squeegee or airless spray equipment. A single coat application is possible but two thin coats are better than one thick coat. Apply the second coat within 24 hours of the first coat being touch dry. Otherwise, re-prime.

CLEAN equipment in Xylene or similar solvent.

Good ventilation is essential in enclosed spaces during application and curing.

Lay any subsequent sand/cement screed or tile bedding mortar within 2 days of initial cure to obtain best results.

Where TPU is used as part of a sandwich construction, the cured surface must be protected against site damage. Overlay a thin cementitious screed or apply a dressing of dry cement followed by protective building boards. TPU will form a good bond to a topping screed, or alternatively building paper can be used as a separator if adhesion is not desired. Treated foundations should also be protected before backfilling.

Coverage Rate coating: 1.0 to 1.5 ltr/m² in total.
For underground damp-proofing TPU should be applied at the rate of 1.5 ltr/m² in total.
primer: 6 - 10 m²/ltr

Storage Store in cool place away from direct sunlight. Keep drums tightly sealed.
A skin of solid membrane will form in partly used drums so these should be stored upside down.

Drum Size 20 litre

Properties & Test Results

Form	Black liquid
Density	1.2 kg/ltr
Solids	81% (by volume)
Flash Point	69°C
Application Temperature	5°C to 50°C
Service Temperature	-30°C to 95°C. Does not flow at high temperature or go brittle at low temperature.
Resistance	Resists water even whilst wet. The cured membrane is highly resistant to heat, UV, acids and alkalis. Does not permit bacterial growth and withstands highly corrosive soil conditions.
Cure Time	Tack free within 12 to 20 hours. Full cure within 7 days.
Water Permeability BS1881	Resistant to water penetration.
Vapour Permeability ASTM E398	20.36 gm / m ² / 24hrs (Tropical conditions), 8.1 gm / m ² / 24hrs (Temperate conditions).
Tensile Strength ASTM D412	1.8 N / mm ²
Elongation ASTM D412	530%
Artificial Weathering BS3900	No significant loss of general properties after 3000 hours. (Equivalent to 15 years natural weathering).

Health & Safety

Avoid flames and sparks. Do not inhale vapour/spray. Provide good ventilation. Use barrier cream. Wear protective clothing and face mask. Clean splashes off skin with hand cleaner, not solvent. In case of eye contact, wash with plenty of clean water, then seek medical advice.