

## Product Description

Techno Brushlastic PU is a single component moisture curing tar extended polyurethane liquid applied elastomeric membrane for waterproofing and protection of a wide range of surfaces. The product cures to a tough rubber like finish with exceptional elasticity which allows for expansion and contraction over a wide range of temperatures.

Techno Brushlastic PU provides complete, seamless, waterproofing membrane free from joints replacing asphalt systems and self-adhesive asphalt membranes.

Techno Brushlastic PU has excellent bonding to substrate, thus, water cannot travel beneath the membrane even if accidentally punctured.

Techno Brushlastic PU is simple to apply by brush, roller or spraying application straight from the pail. Techno Brushlastic PU may be applied to horizontal surfaces without additional thinner. On vertical surfaces it should be applied in multiple coats. A non sag grade is available where coating of extensive vertical areas is required.

## Uses

Techno Brushlastic PU is ideally suited for the waterproofing of two course concrete slab construction for parking garages, decks, shopping malls and plaza areas, bridge decks, elevated side walks and roadways or in single course construction for waterproofing tunnels, foundations, planters and base slabs in terrazzo and quarry tile floor installation and also as a waterproofing between the structural slab and concrete topping of roofing system and under flashings. Long term of continuous water submersion does not affect Techno Brushlastic PU adhesion to the substrate. Under such conditions, two part epoxy primer is to be used prior to applying the membrane. Techno Brushlastic PU can be used as a protection coating over spray applied polyurethane foam.

## Application

### Preparation

All surfaces must be smooth, dry, firm and free of voids, projections, loose materials, oil, grease curing compounds and other foreign matter. Concrete decks should be cured for a minimum of 7 days (Preferably 28 days) before applying membrane. High, early strength and insulating concrete do not provide suitable substrates.

ACI-301-1104(B), Float-finished surfaces, should be considered as the minimum finish for best results.

### Catalyst

Although Techno Brushlastic PU attains a relatively fast cure, a special catalyst, urethane accelerator, may be added to reduce the curing time if humidity is low or if early rainfall is anticipated. In the uncured state, light rainfall will not cause physical or chemical damage to Techno Brushlastic PU, however, heavy rainfall may cause such physical damage that the material will have to reapplied.

Techno Brushlastic PU may develop blisters or bubbles when applied to concrete having a relatively rough finish or sand pits. This can be minimized by applying a prime coat of Techno Brushlastic PU that has been diluted with Toluene or Xylene in equal parts. Allow the primer coat to cure before applying the finish coat.

## Theoretical Coverage

Wet Film Thickness	Coverage
450 micron	2.2 sq. m/ltr
900 micron	1.11 sq. m/ltr
1000 micron	1.0 sq. m/ltr

## Cleaning

Tools and equipment may be cleaned using MEK, Toluene or Xylene.

## Storage Life

Techno Brushlastic PU is stable for a period of 6 months after manufacture, when stored in the original unopened containers under a protective roof or cover at temperatures not exceeding 80°F

## Precautions

Techno Brushlastic PU contains diisocyanates and is harmful if swallowed. Avoid prolonged breathing of vapors and contact with skin and eyes. Wash hands thoroughly before eating or smoking. Upon accidental contact with eyes, flush with water and seek medical attention at once. Wear protective clothing and use soap and water to remove material from skin. Solvents in Techno Brushlastic PU are flammable. Keep away from heat, sparks, open flame or lighted cigarettes. Use explosion-proof application equipments.

Cure time:

@ 4.4° C. 50% R.H. – 48 hours

@ 25° C. 50% R.H. – 30 hours

@ 49° C. 50% R.H. – 20 hours

## Technical Service

- Technokem has an advisory service on concrete mix design & application of right products at right place, can be contacted if assistance is required.
- Technokem maintains a technical division with highly qualified Technical Personnel to investigate and advise on subjects related to concrete and the Construction Industry.
- The Division will advise on the correct use and selection of right products at the right place.
- Technokem undertakes Consultancy Service for diagnosis and rehabilitation of distressed structures; undertakes / delegates jobs as a package for total waterproofing system with guarantee.

## Technical Data

Properties	Test Method	Result
Shore 'A' Hardness	ASTM D 2240:1997	25
Solid Content (By Weight)	ASTM D 2939:1994	83.0%
Crack Bridgeability	ASTM C 836:1995	Passes the test. No Loss of adhesion & no signs of cracking or damage.
Low Temperature Flexibility	ASTM C 711:1993	Passes the test. No signs of cracking, blistering or delamination.
Tensile Strength	ASTM D 412-75 Die C Dumbbell	220 psi
Elongation >600 %		ASTM D 412-75 Die C Dumbbell
Resilience (Recovery%) @ 100% Elongation @ 200% Elongation		ASTM D 412-75 Die C Dumbbell 100% 95%
Moisture Vapour Transmission Gm/hr/m <sup>2</sup>	ASTM 96-66 (1972)	0.02
Peel off Strength	ASTM C 711:1993	1353 N/M

**Important:** Technokem products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, Technokem does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.

### For Complaints/Suggestions:

Please write to our Customer Care Executive at

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