



## WHITECHEM PU MEMBRANE T 225

### 1 – PRODUCT DESCRIPTION

**WHITECHEM PU MEMBRANE T 225;** single component, aliphatic polyurethane based coating material with high permanent elasticity, superior UV resistance, color stability and easy-to-clean surface. It has a special curing system (triggered by the moisture) and does not create bubbles during curing.

### 2 – FEATURES

- Excellent adhesion properties.
- Excellent resistance to abrasion and wear.
- Prevents color fading and dust formation likely to occur on polyurethane waterproofing materials.
- Easy application (by roller and airless gun).
- Forms bright and easy-to-clean surface.
- UV resistant.
- Over-walk able after application (light pedestrian traffic).
- Impervious to water and deicing salts.
- Uniform structure without any connection edges.

### 3 – APPLICATION AREAS

- It is used as a topcoat on polyurethane-based waterproofing materials for protecting waterproofing, giving a decorative appearance to the surface, maintaining brightness of the surface and preventing dust formation.

### 4 – SURFACE PREPARATION & APPLICATION

- The substrate must be clean, dry and free of all contamination such as dirt, oil, grease, and coatings etc. which hinder an adhesion.
- The substrate must be sound and of sufficient strength. If in doubt, apply a test area first.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
- Polyurethane transparent membrane must be thoroughly mixed for 3 min in order to achieve a homogenous mix using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.
- Over mixing must be avoided to minimize air entrainment.
- **By brush:** With a thick haired brush.
- **By roller:** With a solvent resistant, “non-fuzzy” roller.



- **By spray:** Airless spray equipment, (pressure: ~ 200 - 250 bar, nozzle: 0.38mm - 0.53mm, angle: ca. 50 - 80°).

## 5- PACKAGING

- 5 kg metal can

## 6- SHELF LIFE & STORAGE CONDITIONS

9 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

## 7- SAFETY

- For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## 8- SAFETY

- The substrate must be clean, dry and free of all contamination such as dirt, oil, grease, and coatings etc. which hinder an adhesion.
- The substrate must be sound and of sufficient strength
- For optimum application, do not allow liquid polyurethane waterproofing membrane to be heated by direct sunlight or other heat sources.
- The product can be applied by brush, roller or airless spray. Work well with a brush in difficult areas. Apply subsequent layers after the first layer has cured tack free.
- Layer thickness of system: approx. 0.6 mm. If necessary, additional coats can be applied. For a final layer thickness of 1.5 - 1.7 mm minimum 4 – 5 coats are required. The product can be over coated with itself.
- Whitechem PU membrane T225, may form a slippery surface when wet. For non-slippery surface formation, 0.1-0.3 mm quartz may be applied during curing.
- The elastic properties are maintained at temperatures down to -20°C and up to +80°C.
- Clean all tools and application equipment with thinner immediately after use. Hardened and/or cured material can only be removed mechanically.



## 9- TECHNICAL FEATURES

<b>Chemical Base</b>	: Solvent Based Polyurethane	
<b>Density</b>	: 1.00 ± 0.03 gr/ml	(ASTM D1875)
<b>Appearance/Color</b>	: Liquid, Clear	
<b>Surface Curing Time</b>	: 8-12 hrs (23°C and %50 R.H.)	(ASTM C679)
<b>Ready for foot Traffic *</b>	: 24-36 hrs (23°C and %50 R.H.)	(ASTM C679)
<b>Full Cure</b>	: 7 days (23°C and %50 R.H.)	
<b>Shore A Hardness</b>	: 60	(ASTM D 2240)
<b>Elongation %</b>	: ≥ % 250	(DIN EN ISO 527)
<b>Tensile Strength</b>	: 6 N/mm <sup>2</sup>	(DIN 53504)
<b>Heat Resistance</b>	: -20°C and +80 °C	
<b>Application Temperature</b>	: +5 °C and +35 °C	