

TRANS ALM

Single Component, Polyurethane Based, Aliphatic
Transparent Liquid Waterproofing Membrane

DESCRIPTION

TRANS ALM is a single component, polyurethane based, protective, transparent and aliphatic waterproofing liquid membrane.

TYPICAL APPLICATIONS

- Terraces,
- Verandas and balconies,
- Concrete, natural stone surfaces,
- Glass surfaces,
- Ceramic surfaces.

FEATURES AND ADVANTAGES

- Excellent mechanical properties.
- High UV resistance.
- Strength to bad weather conditions.
- Easy to apply (with roller or airless spray).
- Being pure polyurethane it can be in touch constantly with water.
- It can maintain its mechanical properties under the temperatures between -40°C - $+80^{\circ}\text{C}$.
- Strong adhesion.
- It has alkaline and chemical strength, it maintains its transparency and elasticity for years.
- It's applied in thick layers with no swelling.

CONCRETE SUBSTRATE STANDARDS

- Hardness: $\text{R28} = 15 \text{ Mpa}$
- Humidity: $\text{W} < 10\%$
- Temperature: $+5^{\circ}\text{C}$ and $+35^{\circ}\text{C}$
- Relative Humidity: $< 85\%$

For detailed information, please consult our technical department.

APPLICATION PROCEDURE

• SURFACE PREPARATION

Before the application in order to ensure a good adhesion oil, grease, paraffin waste, cement grout, loose particles, mold release agents, cured old membranes should be removed from the surface. After washing the surface with high pressure water, it should be free from damp. Surface defects and cracks should be repaired with suitable products.

• PRIMING

TILE PRIMER should be used on non-absorbent surfaces such as metal, ceramic or old coatings. Polished non-absorbent surfaces such as polished ceramic tiles, glass and glass bricks should be primed with TILE PRIMER. TILE PRIMER should be applied with a cloth to make sure that it is purely treated on the surface. TRANS ALM is applied after 15-20 minutes with the help of a roller or brush. The period of waiting between the application of two layers should not exceed 24 hours.

• APPLICATION

Before usage mix it manually or with a low-speed mixer to get it ready to use. It is applied without thinning. The material should be applied to the previously primed surface in minimum two coats by pouring it with the help of roller or brush. After the first layer is applied, the second layer should be applied within minimum 6 hours and maximum 24 hours. The tools should be cleaned within 2 hours after application.

APPLICATION REMARKS

- Not recommended for unstable surfaces.

CONSUMPTION

- Total Consumption (min.): $0,20 - 1,00 \text{ lt/m}^2$

CLEANING

After the application, all tools should be cleaned with CLEVER 001. Roller are disposable, should not be used second time.

PACKAGING AND COLOR

In 4 lt and 20 lt metal buckets, in transparent color.

STORAGE AND SHELF LIFE

The product can be stored for a maximum of 12 months in its unopened original package at temperatures between $+5^{\circ}\text{C}$ and $+25^{\circ}\text{C}$. Opened product should be used as soon as possible.

PRECAUTIONS

The product should be used in well ventilated environments. The product should not be in contact with open fires. Smoking should not be allowed during application. Protective gloves and masks should be used for hands and eyes during application. If the material comes into contact with eyes, it should be washed immediately with sufficient water. For more detailed information, ask for the Safety Data Sheet (MSDS) from CLEVER POLYMERS technical department.



TECHNICAL DATA		
QUALIFICATION	METHOD	FEATURE
Coating Type	Clever Lab.	Single Component Polyurethane
Density	ASTM D 1475/EN ISO 2811-1 (+20 °C)	1,00 (± 0,05) gr/cm ³
Viscosity	ASTM D 4287 (+25°C)	800 - 1200 cp
Water Vapor Permeability	ASTM E96	0,8 gr/m ² hour
Application Temperature	Clever Lab.	+5°C to +35°C
Heat Resistance	Clever Lab.	+80°C at 100 days
Shock Heat Resistance	Clever Lab.	200°C - Passed
Solid material	Clever Lab.	%80 (± 5)
Hardness	ASTM D2240, DIN 53505, EN ISO R868	> 40 (Shore D)
Elongation at break	ASTM D 412 (+23°C)	> 350%
Tensile Strenght	ASTM D 412 (+23°C)	> 35 N/mm ²
Flash Point	ASTM D 93 (Closed pot)	30°C
QUV	ASTM G53	3000 Hours - Passed
Service Temperature	Clever Lab.	-40°C to +80°C
TACK FREE TIME	25°C / 55% RH	6 hour
RECOAT TIME	Clever Lab.	6 to 24 hour
Potassium Hydroxide 8% ,10 day at 50 °C	Clever Lab.	Not effected
Sodium Hypochlorite 5% 10 days	Clever Lab.	Not effected
Water Absorbancy	Clever Lab.	≤ %1,4

* Viscosity measured at + 25°C according to EN ISO 3219 standards. Viscosity increases inversely with temperature.

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