CLEVER PU TRANS ALM

One Component Transparent Polyurethane Membrane

DESCRIPTION

CLEVER PU TRANS ALM; is one component, aliphatic PU based transparent waterproofing membrane with high UV resistance. It cures with humidity and it produces a transparent, highly durable and highly elastic film with its strong adhesion to the surface.

FEATURES

- Excellent mechanical properties.
- UV resistance.
- Good weathering resistance.
- Simple application.
- As it is pure polyurethane, it can continually contact with water.
- Maintains its mechanical properties over a temperature span of -40˚C to +90˚C.
- Excellent adhesion.
- Resistant to chemicals.it provides permanent elasticity and glossy.

TYPICAL APPLICATIONS

- Terraces,
- Verandas and balconies,
- Concrete and natural stones,
- Glass,
- Ceramic surfaces,

SURFACE PREPARATION

All surfaces must be free of oil, grease and moisture before the application. Clean the surface using a high pressure washer and remove oil, grease and wax contaminants, cement laitance, loose particles and mould release agents must be removed. Fill surface irregularities with the relevant product.

PRIMING

Prime non-absorbent surfaces like metal, ceramic tiles and old coatings with CLEVER PU TILE PRIMER. Non-porous surfaces such as glass, glass tiles, tiles and ceramics should be primed with CLEVER PU TILE PRIMER. CLEVER PU TILE PRIMER should applied by a clothing or a roller and the priming should be done properly on the surface. Apply CLEVER PU TRANS ALM with roller or brush in two, at least, coats. Do not exceed 48 hours between coats. If or if you are unsure of the interlayer adhesion, use CLEVER PU PRIMER 200.

MIXING - THINNING

CLEVER PU TRANS ALM; Power first mix the portion to obtain a smooth, homogenous condition After the stirring is complete, then continue mixing slowly several minutes. Use a low speed mixer until a homogenous mixture is achieved.

APPLICATION

CLEVER PU TRANS ALM; Apply the mixture with a brush or a roller in minimum two layers. After first layer is applied minimum 12 hours max 24 hours, second layer should be applied. Do not exceed 48 hours between each coats. Do not allow coating to remain in the application equipment longer than 2 hours.

CONSUMPTION

Each layer min.: 0,10 - 0,50 lt/m^2

Min. two coats should be applied

Total min. consumption: 0,2 - 1,0 lt/m^2

PACKAGING AND SHELF LIFE

4 Lt

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25 ˚C. Once opened, use as soon as possible.

PRECAUTION

Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Hands and eyes must be protected with gloves and protective glasses. Case of eye contact, rinse eyes with plenty of water for the material and consult a doctor immediately. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

NOTE

This is not a specification and all information is given in good faith. Since conditions of use are beyond the manufacturer's control, information contained herein is without warranty, implied or otherwise, and final determination of the suitability of any information or material for the use contemplated, the manner of use and whether there is any infringement of patents is the sole responsibility of the user. Manufacturer does not assume any liability in connection with the use of the product relative to coverage, performance or injury. For application in special conditions, consult Clever Polymers for detailed recommendations. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid.

SPECIFICATION DATA	
Coating type	1K Aliphatic Polyurethane
Color	Transparent
Density ASTM D 1475/EN ISO 2811-1(20°)	1 g/cm^3 ±0.03
Viscosity ASTM D 2196/EN ISO 3219(25°)	1000-1500cp
Packaging	4 Lt
Water Vapor Permeability (ASTM E96)	0,8 gr/ m^2 per hour
Gloss	Semi Gloss
Application Temperature	+5 °C to +35 °C
Thinner	Thinning is not recommended
Temperature resistance	100 days at 80 °C & 200 °C Dry (shock)
Shelf Life	12 Months
Theoretical spreading rate	0,2-1,0 lt/m^2
Hardness ASTM D2240,DIN 53505,ISO R 868	40 (Shore D)
Elongation Percentage (23°C)(ASTM D 412)	≥ %350
QUV (ASTM G53)	3000 hours
Tensile Force at Break (23°C)(ASTM D 412)	≥ 35 N/mm^2
Adherence on Concrete (23°C)(ASTM D 903)	≥ 2 N/mm^2
Method of application	Airless spray, roller, brush
Drying Time Potlife and drying time depends on temperature and quantities mixed	23°C , %55 RH **Touch dry:** 6 Hrs **Recoating:** 8-24 Hrs **Fully cured:** 7 days