

DESCRIPTION

CLEVER PU 640 TC-1K; One component UV resistant PU based topcoat membrane which cures with the humidity and produces a transparent film with excellent adhesive over the entire surface.

FEATURES

- UV resistance
- Due to its aliphatic structure it is highly resisted to exposed sunlights.
- Easy to apply.
- When applied forms seamless membrane without joints,
- Excellent adhesion.
- Maintains its mechanical properties over a temperature span of -40°C to +80°C.
- High chemical and mechanical resistance.

TYPICAL APPLICATIONS

- High wear resistance,
- Roof terraces balconies and verandas
- High pedestrian traffic areas
- Stadiums, car parks
- Indoors and outdoors applications
- Marble, ceramic surfaces
- Natural stones
- Industrial floor coatings

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, mould release agents must be removed. Fill surface irregularities with relevant product.

PRIMING

Prime very absorbent and brittle concrete or brittle cement screed surfaces with CLEVER PU PRIMER 200 or CLEVER EPOXY PRIMER (Humidity of the concrete should not exceed %5). Or for damp concretes CLEVER PU PRIMER 300-2K or CLEVER EPOXY PRIMER N is suggested for moisture barrier. Prime non-absorbent surfaces like metal, ceramic tiles and old coatings with CLEVER PU TILE PRIMER. Apply the material with roller or brush in two, at least, coats. Do not exceed 48 hours between coats. For a better interlayer adhesion, use CLEVER PU PRIMER 200.

MIXING - THINNING

CLEVER PU 640 TC-1K; Power 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. During the mixing process, don't let to the air flowing into the pail otherwise the air bubbles will become unavoidable.

APPLICATION

CLEVER PU 640 TC-1K; Apply the mixture with a brush or a roller in one or two layers. Do not wait for more than 48 hours between applications. Re-apply the primer if this time limit is exceeded. Do not allow coating to remain in the application equipment longer than 2 hours.

CONSUMPTION

Each layer min.: 0,10 - 0,15 kg/m²
One or two coats should be applied
Total min. consumption: 0,1 - 0,25 kg/m²

PACKAGING AND SHELF LIFE

4 Kg - 20 Kg

Can be kept for 12 months minimum in the original sealed 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 Topcoat
Color	Transparent
Density ASTM D 1475/EN ISO 2811-1(20°)	0,97 gr/cm ³ ±0.03
Viscosity ASTM D 2196/EN ISO 3219(25°)	100-200cp
Packaging	4 Kg - 20 Kg
Water Vapor Permeability (ASTM E96)	0,8 gr/ m ² per hour
Gloss	Glossy
Application Temperature	+5 °C to +35 °C
Temperature resistance	100 days at 80°C & 200°C Dry (shock)
Shelf Life	12 Months
Theoretical spreading rate	0,1-0,25 Kg/m ²
Hardness ASTM D2240,DIN 53505,ISO R 86870	60 (Shore D)
Elongation Percentage (23°C)(ASTM D 412)	≥ %50
QUV (ASTM G53)	2000 hours
Tensile Force at Break (23°C)(ASTM D 412)	≥ 50 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



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