

CRESTHANE PU 100

Liquid applied modified polyurethane membrane

CRESTHANE PU 100 is water based, very fast drying hybrid aliphatic protective coating for concrete structures. The product is easily applied on both vertical and horizontal substrates and forms a seamless, elastic and hydrophobic membrane. Apply with brush, roller or airless spraying in two or more coats. The quantity is depending on the final use requirements.

ADVANTAGES

- Eco-friendly, water based
- Very fast drying
- Excellent adhesion
- Non toxic
- Resistant to abrasion and wear conditions

USES

- Protective and solar reflective coating for sloped-concrete roofs & metal profile roofs.
- Protection of terraces and balconies.
- Protective coating for Polyurethane sprayed foam against UV effect.
- Protection of pedestrian areas (Decks).

SURFACE PREPARATION

Careful surface preparation is essential for optimum finish and durability. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Maximum moisture content should not exceed 8%. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothened. Any loose surface pieces and grinding dust need to be thoroughly removed.

APPLICATION

CRESTHANE PU 100 should be stirred well before using. Absorbent, highly porous and brittle substrate must be primed with CRESTHANE PU 100 if required by diluting approximately 10-15 % with clean water. Allow the primer coat to cure. Apply the first layer of CRESTHANE PU 100 with 1.2 to 1.4 kg/m² applied in two or three layers by roller, brush or airless spray with a film thickness of around 0.5mm per coat. After complete dry apply the second layer also with a film thickness of 0.5mm (Dry film), total 1 mm for two coats.



TECHNICAL PROPERTIES

Description	Value	Standard
Color	White/ Light Grey	-
Specific gravity @25°C	1.25 (±0.05)	In-house
Solid content, %	60 (±2)	-
Elongation at break @25°C, %	>250	ASTM D412
Tensile strength @25°C, N/mm ²	> 2.5	ASTM D412
Hydrostatic pressure	No leakage observed	BS EN 12390
Solar Reflectance (White), %	>80	ASTM E903
Thermal Emittance (White)	0.7	ASTM C1371
Solar Reflective Index (SRI) (White)	>90	ASTM E1980
VOC, g/L	<30	ASTM D3960
Application Temperature, °C	5 to 40	-
Service Temperature, °C	-5 to 75	-

All values given are subject to 5-10% tolerance.

For demanding applications and better results apply a third layer of CRESTHANE PU 100 with a film thickness of 0.5mm. This coverage is based on practical application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature, humidity, application method and finish required, affect highly the consumption ratio.

CLEANING

Clean tools and equipment immediately with water.

STORAGE

CRESTHANE PU 100 should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life.

PACKING

CRESTHANE PU 100 is supplied in 20 kg plastic pail.

SHELF LIFE

Keep away from direct sunlight and store under normal warehouse conditions. Container must be tightly closed. Shelf life of this product is 12 months from the date of manufacturing.

HEALTH AND SAFETY

Always use protective clothing, eye goggles and hand gloves when handling this product. Avoid contact with skin or eyes. If spilled on the skin, wash immediately with soap and plenty of water. Accidental splashes on the eyes should be immediately clean with fresh water and medical attention sought.

Product Disclaimer:

Kanz chemical Ind. LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable. All recommendations regarding the use of product are made without guarantee since the conditions of use are beyond the company's direct control. It is the customer's responsibility to ensure each product is fit for the purpose for which they intend to use it. Furthermore the specifications and description herein cannot be used to void a contract.

*Refer material safety data sheet (MSDS) for further information.