



Tophane PU 55700

Product Description

An acrylic polyurethane resin – aliphatic isocyanate based, two-component, gloss aliphatic polyurethane topcoat, it is High-performance topcoat with excellent adhesion, elasticity, UV resistance, gloss retention, and resistance to corrosive and marine atmospheres.

Product uses:

- **Industrial Structures:** Long-term protection of steel, aluminum, and concrete exposed to corrosive atmospheres.
- **Marine Environments:** Topcoat for ships, offshore platforms, and coastal facilities requiring high UV and salt spray resistance.
- **Transportation:** Protective coating for trucks, trailers, railway cars, and heavy machinery.
- **Infrastructure:** Suitable for pipelines, storage tanks, and refineries exposed to chemical and marine conditions.
- **Maintenance & Repair:** Ideal for over coating aged epoxy or polyurethane systems to restore gloss and extend service life.

Properties

- Excellent adhesion to various substrates
- High elasticity and flexibility.
- Superior UV resistance.
- Long-term gloss retention.
- Resistance to corrosive and marine environments.
- Durable protective finish for industrial and architectural applications

TECHNICAL PROPERTIES

<i>Appearance/Color</i>	Semi-gloss / RAL Color Card
<i>Density:</i>	1.35 kg/liter
<i>Volume solids %:</i>	58 %
<i>Theoretical spreading rate:</i>	7.73 m ² /ltr / 5.73 m ² /kg (75 micron DFT)
<i>Consumption:</i>	0.130-0.140 ltr/ m ² (175-200 g/m ²)
<i>Recommended DFT:</i> <i>(Dry Film thickness)</i>	75-100 micron per coat
<i>Flash Point:</i>	22° C. / 71.6 °F
<i>Open time:</i>	2 hours (23°C and 50% R.H.)
<i>Surface dry:</i>	1 - 2 approx. hour(s) 23°C/73.4°F 50% R.H
<i>Light foot traffic</i>	12-18 hours (23°C and 50% R.H.)
<i>Full dry:</i>	24 hours (23°C and 50 % R.H.)
<i>Full cure time:</i>	7 days (23°C and 50 % R.H.)
<i>Application temperature:</i>	+8 °C/46.4° F and +35 °C/ 95°F
<i>Min. cure temperature:</i>	+10°C/50°F

Application Details

<i>Application method:</i>	Brush / Roll / Airless Spray
<i>Thinner:</i>	Polyurethane Thinner
<i>Thinner Amount:</i>	Brush : Do not thin Roll: 10 % Airless Spray 5-7 % Air spray : 20-30 %



Surface Preparation:

- Surface must be dry, clean and free of all contamination such as dirt, oil, grease, and coatings etc. which hinder adhesion.
- Surface must be firm and have enough strength. If in doubt, apply a test area before beginning.
- All dust, loose and friable particles should be removed from the surface before application with brush and/or vacuum cleaner.
- A and B components should be thoroughly mixed for 3-4 minutes in order to achieve a homogenous mix using a low speed electric stirrer or other suitable equipment until a homogenous mixture has been achieved. After mixing, primer is ready for application.

PRECEDING COAT:

Epoxy primers for metal surfaces are needed and for wood, it is very important to prepare the surface of wood according to its kind and primed with suitable wood primer.

Important Remarks:

- Surfaces must have enough structural strength.
- Applications below 10°C should be avoided.
- High temperatures lower the pot life of the product, while low temperatures extend cure time and consumption.
- Be careful about product mixing ratios.
- The surface should be protected from moisture and rain for 8-10 hours after application.
- All application tools and equipment should be cleaned with thinner immediately after the use. Cured material can only be removed mechanically.
- Use only where application and drying can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above. Apply only on a dry and clean surface with a Temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.

Shelf life & Storage:

12 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.

Safety:

For information and precautions on the safe handling, transportation 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.

Legal Notice:

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