

## PRODUCT DESCRIPTION

Polyurethane Topcoat (PCT™) is a two-component system based on acrylic-hydroxy resin and isocyanate hardener. This coating forms a film with excellent resistance to weathering, ultraviolet light, moisture, environmental pollutants, and mechanical stress. It offers strong adhesion to substrates such as dock structures, storage tanks, bridges, and industrial steel structures. It is used as a protective finish over epoxy primer and mid-coat layers for metal frameworks exposed outdoors.

## TECHNICAL DATA

| Material                 | Polyurethane                            |
|--------------------------|---|
| Color                    | White                                   |
| Mix Ratio (A:B)          | 15 A : 100 B                            |
| Mixed solids (by weight) | 70±2%                                   |
| Mixed solids (by volume) | 56 ± 3 %                                |
| Theoretical coverage     | ~11 m <sup>2</sup> per liter (dry film) |
| Dry film thickness       | ~50 µm                                  |

Surface dry: < 6 hours

Drying times at ~25 °C:

Hard dry: 24 hours

Full depth cure: 7 days

## PRODUCT FEATURES

- Excellent UV Resistance
- High Abrasion and Impact Resistance
- Strong Adhesion
- Fast Drying Time
- Chemical Resistance
- Moisture Resistance
- No Chalkiness Over Time
- High Flexibility
- Color Stability

## APPLICATIONS

- floor coating in industrial and commercial setting
- Used as a protective layer for metal structures like bridges, docks, and tanks
- Applied as a topcoat on car bodies
- chosen for its resistance to chemicals and environmental factors

## APPLICATION STEPS

- Ambient temperature during application: +10 °C to +60 °C
- Substrate temperature should be at least 3 °C above dew point to avoid condensation

### Surface prep:

1. Thoroughly prepare and clean the substrate (remove oil, dust, rust, salts).
2. Clean tools and equipment with thinner before and after use.



**PTC™ Polyurethane Top coat**

### Mixing instructions:

1. Combine Part A and Part B in correct ratio.
2. Mix thoroughly with a suitable mixer to achieve a uniform blend.

Adjust viscosity with thinner gradually, based on ambient conditions and spray equipment

### Application:

1. Use spray (airless, conventional, or HVLP with 0.38–0.53 mm nozzle)
2. Brush or roller application also possible for small areas or touch-upstouch-up

### Application notes:

1. Ensure good air circulation or use ventilation in enclosed spaces
2. Apply overlapping passes (~50% overlap) evenly across the surface
3. Pay special attention to edges and corner
4. Repair any missed or damaged spots with brush
5. Clean all tools with thinner immediately after use

## SHELF LIFE

12 months under standard storage conditions.

## SAFETY INSTRUCTINS

- Flammability: Flammable — keep away from heat, sparks, flames; keep containers tightly closed

### First aid:

- Eye contact: Rinse with plenty of water and seek medical attention
- Ingestion: Seek immediate medical help