

# ShaliUrethane PC

Two Component Solvent Free Aliphatic PU Protective Coating



STP Limited

## Description

**ShaliUrethane PC** is a two component solvent free, polyurethane protective coating with excellent mechanical properties and good abrasion resistance. **ShaliUrethane PC** may be used as protective coating for concrete / steel structure including pipeline as well as internal coating for portable water pipeline. **ShaliUrethane PC** is non toxic and meets US FDA 170.300.

## Characteristics

Mix Density, kg / L	1.21 ± 0.02	Volume solid, %	> 99
DFT/Theoretical Coverage, L/m <sup>2</sup> *	1 mm	Hardness Shore D	60 ± 5
Pot Life @ 30 °C 70% RH	5-7 minutes	Tensile Strength, MPa	17 minimum
Cure Time, hr		Elongation, %	50
• Touch Dry	1	Abrasion Resistance, mg	< 40
• Cure Time-Overcoat window	4 - 6	Salt Spray, hr	5000

\* Depending upon surface condition.

## Application

- Steel / concrete structure
- Concrete tunnel
- Inner pipe line for water and waste water
- Mounted bullets
- Hydro electric penstocks and dam gates
- Cooling tower basins.

## Advantages

- Good flexibility
- High mechanical strength
- High impermeability
- High abrasion resistance
- VOC Free
- Suitable for potable water pipe line

## Application Methodology

- Clean surface off all dust, oil, grease, loose particles, laitance and other contaminants and . thoroughly abrade by a wire brush and remove loose particles by washing or air jet..
- Prepare steel surface to Sa 2½ standards near white metal finish. Any condensation on the surface may cause blooming and patches on the surface finish.
- Prime surface with ShaliPrime Penetration and allow it to dry.
- Apply **ShaliUrethane PC** by plural component airless spray gun. For small repair or patch work, apply modified **ShaliUrethane PC** by brush / roller after mixing Component A and Component B in the ratio 3 : 1. Consult STP engineer for advice.
- Allow it to dry for 6 – 8 hrs for subsequent coating
- **Do not apply ShaliUrethane PC at temperature <5 °C or >40 °C.**

## Cleaning

Clean all tools immediately after use with **STP Thinner**. Do not allow material to harden.

## Health & Safety

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

## Packing

Available in 20 L x 3 and 20 L x 1 Unit pack.

## Storage

Store in a cool dry place, under shed, away from heat.

## Shelf Life

12 months in original unopened sealed conditions.



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