

The Advanced Material

The Significant Differences...

PRODUCT DATA SHEET

Rev. 1/04.05

PLC 450 PU

ALIPHATIC POLYURETHANE FINISH

DESCRIPTION

PLC 450 PU is a two-component aliphatic acrylic polyurethane coating. This high gloss, tile-like, attractive topcoat with hard film which is readily cleaned. **PLC 450 PU** has very good resistance to splash and spillage of acids, alkali and most of the common solvents. It also exhibits excellent resistance to splash and spillage of salts and water.

RECOMMENDED USES

PLC 450 PU is recommended as a finish coat or exteriors of tanks, equipment, piping, structural steel and concrete where chemical resistance, toughness and weather ability are required. A protective and decorative topcoat for concrete walls and floor, structural steels in chemical processing, pulp and paper, petrochemical, bridges, marine and offshore facilities.

ADVANTAGES

- Attractive – exhibit tile-like finish
- Hard wearing – very high abrasion resistant surface
- Gloss – high gloss and excellent gloss retention
- Steam cleaning – suitable for areas require
- Excellent flexibility

PHYSICAL DATA

Finish	: Gloss and Matt
Colour	: Refer to the colour chart
Volume Solids	: 50 ± 2%
No. of Components	: Two
Mixing Ratio	: 7 part of A to 1 part of B by volume
Recommended Thickness	: 40 microns DFT
Theoretical Coverage	: 12.5 m ² /litre @ 40 microns DFT
No. of Coats	
Recommended	: One or Two
Drying Time	: Touch dry 2 to 3 hours Recoat 24 hours
Packing Size	: 5 litres and 20 litres
Pot Life	: 4 hours
Temperature	: Continuous 93°C
Resistance	: Non-continuous 120°C

CHEMICAL RESISTANCE GUIDE

Exposure	Splash & Spillage	Fumes
Acids	Very Good	Excellent
Alkali	Very Good	Excellent
Solvents	Very Good	Excellent
Salt water	Excellent	Excellent
Water	Excellent	Excellent

APPLICATION INSTRUCTIONS

SURFACE PREPARATION : The surface to be coated must be thoroughly cleaned and degreased to ensure that oil, grease and other surface contaminants are removed. **PLC 450 PU** shall be applied over clean, dry recommended primer or tie-coat.

MIXING : Stir Part A thoroughly in the container with power mixer, then pour Part B into Part A in the pre-weighed packing and continue to stir. Mix to a uniform consistency before thinning.

APPLICATION : **PLC 450 PU** can be applied by rollers, brushes or spraying equipment. Make sure sufficient material is applied evenly to the entire surface to ensure maximum penetration. For application in enclosed area, provide sufficient ventilation to ensure proper drying of applied materials.

CURING : The rate of curing is dependent on temperature and other environmental conditions. Provide good ventilation immediately after application to ensure proper and speed curing.

CLEANING : Clean all application tool with PLC Cleaner #2 immediately after use.



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