

The Advanced Material

The Significant Differences...

PRODUCT DATA SHEET

Rev. 1/04.05

PLC 310 PU / PLC 310 NS ALIPHATIC POLYESTER URETHANE

DESCRIPTION

PLC 310 PU is a two-component aliphatic polyester polyurethane coating available in gloss, satin and matt finishes and also in smooth and non-skid surfaces. **PLC 310 NS** is the non-skid version which contain a special polymeric aggregate that can withstand impact. This high gloss, tile-like, attractive topcoat provides a durable, hard wearing, non-yellowing, impermeable and easily sanitized surface. It has hard, smooth and non-porous surface that prevents bacterial and fungal growth on the surface. It is also resistant to water jet cleaning and steam cleaning. **PLC 310 PU** meets requirements under DIN 4102 and BS 476 to be classed under non-combustible building material.

RECOMMENDED USES

PLC 310 PU is specially designed for interior and exterior applications where an extremely clean and hygienic topcoat is required. **PLC 310 PU** is suitable for metal, concrete and timber surface. **PLC 310 NS** is the non-skid version designed for floors in food processing plants, hospitals, pharmaceutical factories, wet market, kitchens and other areas where a non-skid and chemical resistant coating is needed. A layer of **PLC 310 PU** over other urethane topcoats will not only enhance the protective properties of the coating but also exhibit a high gloss tile-like finish. **PLC 310 PU** is also recommended as an anti graffiti coating in public areas for its resistance against inks and solvents.

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 steam cleaning.
- Hygienic – No fungal and bacterial growth on surface.
- Available in clear and pigmented versions.
- Anti skid - Meet safety requirements for wet areas.
- Non-combustible and minimum flame spread under fire.
- Anti-graffiti – Graffiti caused by paint and marker can be removed easily with solvent wipe.

CHEMICAL RESISTANCE GUIDE

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

PHYSICAL DATA

Finish	: Gloss, Satin or Matt
Colour	: Clear and wide range of colours
Volume Solids	: 45 ± 2 %
No. of Components	: Two
Theoretical Coverage	: 10.0 m ² /litre @ 45 microns DFT
Drying Time	: Touch dry 4 to 6 hours Re-coat 24 hours
Packing Size	: 5 Litres and 20 Litres
Pot life	: 4 hours
Temperature resistance	: 150°C for dry service
Recommended Thickness	: 45 microns DFT

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. The surface preparation method will vary for different types of surfaces, to get the right method for the job, consult PLC Laboratory Technical Division for more details.

PRIMERS & UNDERCOATS : **PLC 310 PU** can be applied over epoxy and polyurethane primers and undercoats.

MIXING : Stir Part A thoroughly in the containers 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.

THINNING : Thin not more than 10% with Thinner #1 for workability.

APPLICATION : **PLC 310 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 dependant 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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