

PRODUCT CODE: C200063

Polyplex Hi-Lite Surfboard Filler Resin is a medium reactivity, ortho-phthalic based unsaturated polyester resin, designed for use in FRP Surfboard constructions. Polyplex Hi-Lite Surfboard Filler Resin has been specially formulated for filling of the raw laminated surfboard to provide a smooth surface. The resin is non-thixotropic, UV stabilised and pre-promoted for ambient temperature curing using MEKP catalyst. Polyplex Hi-Lite Surfboard Filler Resin has been specially designed to give surfboards a cleaner, brighter appearance.

PERFORMANCE CHARACTERISTICS

- Excellent levelling properties.
- Fast gel and cure characteristics with excellent sanding characteristics.
- Specially formulated cure system.
- Provides a smooth surface for finishing.
- Allows rapid finishing.
- Low colour in cured state.

TYPICAL LIQUID RESIN PROPERTIES

PROPERTY	TYPICAL VALUE
Viscosity – Brookfield RVT 3/100	550 - 700 cP
Density	1.10 gcm ⁻³
Styrene Content	37 – 40 %
Appearance	Light blue
Flash Point (Setaflash)	31°C
Gel Time - (1.5% MEKP NR20)	4 - 6 minutes
Shelf Life (when stored in original closed container in the shade)	6 months

TYPICAL MECHANICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST DETAILS
Density	1.19 gcm ⁻³	ISO/R 1183-1970
Tensile Strength	69 MPa	ISO/R 527-1966
Tensile Elongation	2.0 – 2.5%	ISO/R 527-1966
Flexural Strength	89 MPa	ISO 178-1975
Flexural Modulus	3800 MPa	ISO 178-1975
Volume Shrinkage	7-8 %	ISO 3521-1976
Heat Distortion Temperature	65 - 70C	ISO 75-1974
Barcol 934-1 Hardness	30 - 40	Barcol Impressor

Fully Postcured Casting

STORAGE AND HANDLING

To ensure maximum stability and maintain optimum resin handling properties, polyester resins should be stored in closed containers, away from heat sources and sunlight. The resin should be stored away from all sources of ignition. Stored resin quantities should be kept to a reasonable minimum and used on a first in/first out stock rotation basis. Prolonged storage, or unfavorable storing conditions, may cause separation, therefore agitation of the resin before use is recommended.

STANDARD PACKAGING

Mild Steel Drums (Open Top)
Mild Steel Pails

Always refer to the MSDS before use