

PRODUCT CODE: C200701

POLYPLEX SURFBOARD FILL RESIN is a medium reactivity, orthophthalic based unsaturated polyester resin, designed for use in FRP Surfboard constructions. **POLYPLEX SURFBOARD FILL 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 prepromoted for ambient temperature curing using MEKP catalyst. **POLYPLEX SURFBOARD FILL RESIN** has been specially designed to give surfboards a cleaner, brighter appearance and forms part of the new grade of acrylic modified resins with lower styrene levels and improved UV resistance properties.

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
- Lower styrene content

TYPICAL LIQUID RESIN PROPERTIES

PROPERTY	TYPICAL VALUE
Viscosity – Brookfield RVT 3/100	550 - 700 cP
Density	1.10 gcm ⁻³
Styrene Content	34 - 37 %
Appearance	Light blue
Gel Time - (1.5% MEKP NR20)	4 - 6 minutes
Shelf Life (when stored in original closed container in the shade)	6 months

Typical values: Based on materials tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

TYPICAL MECHANICAL PROPERTIES IN CURED STATE

Fully Postcured Casting

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 - 70°C	ISO 75-1974
Barcol 934-1 Hardness	30 - 40	Barcol Impressor

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 unfavourable storing conditions, may cause separation, therefore agitation of the resin before use is recommended.

STANDARD PACKAGING

Mild steel drums (open top)
Mild steel pails

Refer to Material Safety Data Sheet before use