

PRODUCT CODE: C200040

Polyplex Marble Casting Resin is a pre-promoted, low reactivity, orthophthalic polyester resin especially formulated for use in synthetic marble filled casting applications. The resin is pre-promoted for room temperature with methyl ethyl ketone peroxide (MEKP) initiators. Polyplex Marble Casting Resin is non-thixotropic and wax-free.

FEATURES

- Positive cure characteristics after gelation.
- Lot to medium viscosity.
- Non thixotropic.

BENEFITS

- Allows rapid cycle times.
- Accepts reasonably high filler loadings.
- Air release is unimpaired.

TYPICAL LIQUID RESIN PROPERTIES

PROPERTY	TYPICAL VALUE	TEST DETAILS
Appearance	Clear Liquid	
Viscosity	300 – 500 cP	Brookfield RVT sp.3/100 rpm
Geltime	9 – 12 minutes	2% MEKP Interox NR20
Density	1.10 gcm ⁻³	
Flash Point	31°C	Setaflash
Styrene Content	36 – 39%	
Shelf Life	6 months	When stored in original closed container, in the shade

* 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 CAST UNFILLED RESIN PROPERTIES

PROPERTY	TYPICAL VALUE	TEST DETAILS
Hardness	40 – 45	Barcol (GYZ 934-1) EN 59
Density	1.19 gcm ⁻³	ISO R1183
Volume Shrinkage	7-8%	ISO 3521
Tensile Strength	70MPa	ISO R527
Flexural Strength	105 MPa	ISO 178
Flexural Modulus	Mpa	ISO 178
Elongation at break	2.0%	ISO R527
Heat Distortion Temperature	60-65°C	ISO 75

* Cast resin was prepared as laid down in BS 3532 using 1% MEKP. Cured at room temperature for sixteen hours then post cured for two hours at 80°C followed by two hours at 100°C.

STORAGE AND PACKAGING

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.

STANDARD PACKAGING

Mild steel drums (225kg)

Always refer to the MSDS before use.