

POLYLITE® 32166-17

Acrylic modified Solid Surface Resin

DESCRIPTION

POLYLITE® 32166-17 is an unsaturated polyester casting resin developed to produce non-gel coated, solid surface products. Because Polylite 32166-17 is based on Isophthalic acid and Neo-pentyl glycol, it behaves like a high-quality gel coat and will not discolour after continuous exposure to water.

POLYLITE® 32166-17 is a pre-accelerated, rigid, medium reactive, low viscosity resin.

POLYLITE® 32166-17 is UV stabilized, stain resistant and contains methyl methacrylate.

APPLICATION

- Solid surface Casting Sheets at ambient temperature
- The use of vacuum and post curing strongly recommended in the manufacture of densified, solid surface products.

FEATURES

- Acrylic-Modified
- Isophthalic acid and Neo-pentyl Glycol based
- High heat distortion temperature

- Medium Viscosity
- High solids content
- UV stabilized
- Specially Promoted

- Statistically process and quality controlled by ISO 9000-2000

BENEFITS

- Look, feel and smell of cast acrylic.
- Better toughness and impact strength
- High heat and scratch resistant
- Only slight bleaching after continuous exposure to water
- Superior thermal shock performance
- Permits high filler levels, reducing cost
- Excellent filler suspension
- Long lasting color retention
- Light color gives clear casting
- Good curing, Short demoulding time
- Controlled gel and cure drift
- Controlled peak exotherm
- Fast Production cycle

- Batch-to-batch consistency.

The information herein is general information designed to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We require customers to inspect and test our products before use and to satisfy themselves as to contents and suitability for their specific applications. We warrant that our products will meet our written specifications. **Nothing herein shall constitute any other warranty express or implied, including any warranty of merchantability or fitness for a particular purpose**, nor is any protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is limited to replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.

December 18, 2006
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PROPERTIES

PHYSICAL DATA IN LIQUID STATE AT 25°C

Properties	Unit	Value	Test Method
Viscosity Brookfield LV SP/3/60 rpm	cps	850-1250	ASTM D 2196-86
Styrene Content	%	32-35	BS 6782: Part 1: 1987
Density	g/cm ³	1.100	BS 3900: Part A12: 1975
Flash Point	°C	31.5	BS 3990: Part A9: 1986
Colour		Clear	
Geltime: 1.25% NORPOL PEROXIDE 10	minutes	10-13	ASTM D 2174-86
Curing time: Gel to Peak Exotherm	minutes	8-11	Casting at
Peak Temperature	°C	160-180	Cold climatic conditions
Geltime: 1.00% NORPOL PEROXIDE 1	minutes	14-20	ASTM D 2174-86
Curing time: Gel to Peak Exotherm	minutes	10-20	Casting at
Peak Temperature	°C	150-170	Hot climatic conditions
Stability at 20°C from data of manufacture, min	months	3	Colour sensitive

MECHANICAL DATA OF FILLED CASTING

Properties	Unit	Value	Test Method
Barcol Hardness, 934-1	-	56.0	ASTM D-2583
Tensile Strength	MPa	34.5	ASTM D-638
Tensile Modulus	GPa	9.0	ASTM D-638
Tensile Elongation at Break	%	0.5	ASTM D-638
Water Absorption after 24 hours	%	0.03	ASTM D-570

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RECOMMENDED PEROXIDE:

All POLYLITE products are Quality Controlled with the specified Peroxide. However, alternatives are available and all users should be aware that a single Peroxide formulation cannot provide optimum results in all resin systems. The interaction between the Peroxide and the inhibitor/accelerator systems used in our products is complex and varies from resin to resin. Consequently the gel and cure characteristics provided by alternate Peroxide can vary greatly from those specified. It is, therefore, absolutely essential that the user evaluate each alternate Peroxide in each product before full-scale manufacture is started.

Through thorough laboratory work we have found that some types of Peroxide formulation (such as the acetyl acetones) can lead to distinct cured color variation. We would, therefore, strongly recommend the use of a single peroxide (Norpol Peroxide No.1 / Butanox M-50) especially where consistent light colors are required for the finished articles.

STORAGE

To ensure maximum stability and maintain optimum resin properties, POLYLITE resins should be stored in closed containers at temperatures below 25°C and away from heat sources and sunlight. All storage areas and containers should conform to local fire and building codes. Drum stock should be stored away from all sources of flame or combustion. Inventory levels should be kept to a reasonable minimum with first-in, first-out stock rotation.

PACKAGING FORM

- Non-returnable 220 kg metal drums or
- Non-returnable 20.0 kg pails may be delivered on request

SAFETY

READ AND UNDERSTAND THE MATERIAL SAFETY DATA SHEET BEFORE WORKING WITH THIS PRODUCT

Obtain a copy of the material safety data sheet on this product prior to use. Material safety data sheets are available from your Reichhold sales representative. Such information should be requested from suppliers of all products and understood prior to working with their materials.

DIRECTLY MIXING ANY ORGANIC PEROXIDE WITH A METAL SOAP (Cobalt), AMINE (DMA), OR OTHER POLYMERIZATION ACCELERATOR OR PROMOTER WILL RESULT IN VIOLENT DECOMPOSITION.

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