



Your Formula for Success
RESINS | GEL COATS | COLORANTS

VIBRIN® G440LU POLYESTER GEL COAT



Product Information

POLYESTER GEL COAT FOR CLEAR SANITARY WARE APPLICATIONS

Typical Cast Mechanical Properties ¹			
Test	Unit of Measure	Nominal	Test Method
Tensile Strength	psi	12,100	ASTM D 638
Tensile Modulus	psi	600,000	ASTM D 638
Tensile Elongation	%	2.5	ASTM D 638
Flexural Strength	psi	22,100	ASTM D 790
Flexural Modulus	psi	620,000	ASTM D 790
Heat Distortion Temp.	°F/°C @264 psi	167/75	ASTM D 648

DESCRIPTION

Vibrin G440LU is a prepromoted, thixotropic, neopentyl glycol isophthalic polyester gelcoat designed for spray applications. It is designed for use in synthetic marble applications.

BENEFITS

- Low HAP content allows product to meet composites MACT standards
- Superior UV stability over conventional products
- Superior physical properties give excellent thermal shock test results
- Typical test results are more than twice the ANSI Z124 thermal cycle test requirement
- Lower styrene emissions reduce occupational exposures
- Improved transfer efficiency with less overspray generates less waste
- No loss in processing characteristics over conventional products.
- Gives excellent color, clarity, air release and flow characteristics.
- Pour times at 30-60 minutes are typical

Typical Liquid Properties ²		
Test	Unit of Measure	Nominal
Viscosity @ 77°F/25°C, RVF Brookfield Spindle #4 @ 20 RPM	cps	3200–4200
Thix Ratio	2:20 rpm	6.0–7.5
Gel Time @ 77°F/25°C, (1.5% of a 9% active oxygen MEKP)	minutes	4.0–6.0
Exotherm Time	minutes	6.0–12.0
Exotherm Temperature	°C	190-220
Film Cure	minutes	45–60
HAP Content	%	40-43

Typical properties are not to be construed as specifications.

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PERFORMANCE GUIDELINES

A. All AOC thixotropic polyester gel coats should be mixed well prior to use.

B. MEKP levels should be kept between 1.0% and 2.5%

C. Gel coats should not be applied below 64°F/18°C.

D. Recommend spraying 3 passes at 5-8mils allowing a short flash time between passes

STORAGE STABILITY

This product is stable for three months from the date of manufacture when stored in the original containers, away from direct sunlight or other UV light sources and at or below 77°F/25°C.

Storage at elevated temperatures will reduce shelf life.

After extended storage, some drift may occur in gel time or viscosity.

SAFETY

See the appropriate Safety Data Sheet for guidelines.

ISO 9001:2008 CERTIFIED

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9001:2008 standards. This certification recognizes that each AOC facility has an internationally accepted model in place for managing and assuring quality. We follow the practices set forth in this model to add value to the resins we make for our customers.

FOOTNOTES

(1) Based on tests at 77°F/25°C and 50% relative humidity. All tests performed on unreinforced castings. Thixotropic components are excluded from casting samples. Castings were post cured.

(2) The gel times shown are typical but may be affected by catalyst, promoter, inhibitor concentration, resin, mold, and shop temperature. Variations in gelling characteristics can be expected between different lots of catalysts and at extremely high humidities. Pigment and/or filler can retard or accelerate gelation. It is recommended that the fabricator check the gelling characteristics of a small quantity of resin under actual operating conditions prior to use.



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Pub. VIBRIN G440LU
Effective Date: April 2017
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