MaxPox® VE

Vinyl Ester Resin

DESCRIPTION

MaxPox® VE is a corrosion resistant, epoxy vinyl ester resin for use in the manufacture of liner pipe using cured-in-place techniques. This resin is designed for hot cure. The corrosion resistance of this resin is comparable to CORVE8100. Data on any specific testing or corrosion recommendations will be supplied upon request.

FEATURES

- Moderate Composite Exotherm
- Good Fiberglass Wet-Out
- Tested Under ASTM D2990 for Flexural Modulus Creep

BENEFITS

- Resistant to distortion during cure cycle
- High composites physical properties
- Retains structural integrity under load in severe conditions



LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model RV #4 Spindle @ 20 rpm, 77°F | 25°C, cPs	2,000 - 4,000
Thixotropic Index	2.9 - 3.9
Gel Time run in a 140°F | 60°C water bath, initiated with 1.0 phr of Perkadox 16 and 0.5 phr of Trigonox C * — Gel Time, 130°F to 150°F | 54-66°C, min:sec — Gel to Peak, 150°F | 66°C to Peak Exotherm Time, min:sec — Peak Exotherm	 10:00 - 20:00 2:00 - 10:00 310-400°F | 154-204°C
Non-Volatile Content, %	58.0 - 66.0
Room Temperature Catalyzed Stability, hours	>24
Specific Gravity	1.05 - 1.08

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TYPICAL PROPERTIES				
THICKNESS	1/8 INCH | 3.2MM CASTING		1/4 INCH | 6.4MM LAMINATE	
CONSTRUCTION	NOT APPLICABLE		CIPP FELT LAMINATE	
Flexural Strength, ASTM D790	19,000 psi	132 MPa	11,000 psi	76 MPa
Flexural Modulus, ASTM D790	4.7 X 10^5 psi	3,241 MPa	5.1 X 10^5 psi	3,500 MPa
Tensile Strength, ASTM D638	11,000 psi	76 MPa	6,800 psi	47 MPa
Tensile Modulus, ASTM D638	4.7 x IO^5 psi	3,172 MPa	5.3 x IO^5 psi	3,700 MPa
Tensile Elongation, ASTM D638	4.2%	4.2%	2.0%	2.0%
BarcolH ardness9, 34-1 gauge, ASTM D2583	36	36	N/A	N/A
Heat Distortion Ternperature, ASTM IJ648	215°F	102°C	197°F	92°C

** Gel time and reactivity will vary due to the type and concentration of Free Radical Initiator (catalyst), shop temperature, humidity, and type of fillers used. In order to meet your individual needs consult our technical sales representative for assistance.*

TECHNICAL SUPPORT

Call technical support with additional questions at (877) 426-5948.

DISCLAIMER

The information contained herein is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and no warranty of any kind is made with respect thereto. Exact coating type and thickness depend on the specific types of resin being used. Always read, understand, and comply with hazard warnings described in the products' Safety Data Sheet(s) before use.