Vipel® F010-H2O-00

Vinyl Ester

AOC, L.L.C.

Message:

F010-H2O-00 Coating System for Potable Water POTABLE WATER NSF/ANSI 61 Certified Vipel F010-H2O-00 is certified to NSF/ANSI 61 for use in commercial and domestic potable water systems as a protective barrier material. If fabricators follow the ingredients and process instructions listed on page 3, they do not need to perform additional testing to manufacture a NSF/ANSI 61 compliant

coating.

BENEFITS

Suitable for Sodium Hypochlorite Containment

The formulation of Vipel F010-H2O-00 is also appropriate and suitable for sodium hypochlorite (chlorine bleach) containment. Sodium hypochlorite is a widely accepted water purification chemical that is very aggressive to most metals and many polymeric materials. The use of coatings that are not formulated for sodium hypochlorite containment will reduced the service life of the equipment.

General Information			
Features	alkali resistance		
Uses	Pipeline coating		
	Coating application		
	Potable water application		
Agency Ratings	NSF 61		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Styrene Content	39	%	
Critical Strain Energy	100	J/m²	ASTM E399
Gel to Peak	10.0	min	
Peak Exotherm	180	°C	
Stress Intensity Factor	0.600		ASTM E399
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	39		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3170	MPa	ASTM D638
Tensile Strength	88.3	MPa	ASTM D638
Tensile Elongation (Break)	6.2	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Compressive Strength	121	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	120	°C	ASTM D648
Glass Transition Temperature	130	°C	DIN 53445
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	> 1.0E+13	ohms	DIN 53482
Volume Resistivity ¹	> 1.0E+16	ohms·cm	DIN 53482
Dielectric Strength (0.700 mm)	120	kV/mm	DIN 53481
Dielectric Constant			DIN 53483
60 Hz ²	3.40		DIN 53483
60 Hz ³	3.50		DIN 53483
1 kHz ⁴	3.40		DIN 53483
1 kHz ⁵	3.50		DIN 53483
1 MHz ⁶	3.30		DIN 53483
1 MHz ⁷	3.40		DIN 53483
Dissipation Factor			DIN 53483
60 Hz ⁸	2.5E-3		DIN 53483
60 Hz ⁹	3.7E-3		DIN 53483
1 kHz ¹⁰	2.2E-3		DIN 53483
1 kHz ¹¹	3.3E-3		DIN 53483
1 MHz ¹²	1.6E-3		DIN 53483
1 MHz ¹³	2.3E-3		DIN 53483
Uncured Properties	Nominal Value	Unit	Test Method
Uncured Properties Density	Nominal Value	Unit g/cm ³	Test Method
Uncured Properties Density Viscosity (25°C, Brookfield RVT)	Nominal Value 1.05 0.30	Unit g/cm³ Pa·s	Test Method
Uncured Properties Density Viscosity (25°C, Brookfield RVT) Gel Time (25°C)	Nominal Value 1.05 0.30 20	Unit g/cm ³ Pa·s min	Test Method
Uncured Properties Density Viscosity (25°C, Brookfield RVT) Gel Time (25°C) NOTE	Nominal Value 1.05 0.30 20	Unit g/cm ³ Pa·s min	Test Method
Uncured Properties Density Viscosity (25°C, Brookfield RVT) Gel Time (25°C) NOTE 1.	Nominal Value 1.05 0.30 20 Dry	Unit g/cm ³ Pa·s min	Test Method
Uncured Properties Density Viscosity (25°C, Brookfield RVT) Gel Time (25°C) NOTE 1. 2.	Nominal Value 1.05 0.30 20 Dry Dry Dry	Unit g/cm ³ Pa·s min	Test Method
Uncured Properties Density Viscosity (25°C, Brookfield RVT) Gel Time (25°C) NOTE 1. 2. 3.	Nominal Value1.050.3020DryDryAfter 24 hrs in drinking water	Unit g/cm ³ Pa·s min	Test Method
Uncured PropertiesDensityViscosity (25°C, Brookfield RVT)Gel Time (25°C)NOTE1.2.3.4.	Nominal Value1.050.3020DryDryafter 24 hrs in drinking waterDry	Unit g/cm ³ Pa·s min	Test Method
Uncured Properties Density Viscosity (25°C, Brookfield RVT) Gel Time (25°C) NOTE 1. 2. 3. 4. 5.	Nominal Value1.050.3020DryDryafter 24 hrs in drinking waterDryafter 24 hrs in drinking water	Unit g/cm ³ Pa·s min	Test Method
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Uncured Properties Density Viscosity (25°C, Brookfield RVT) Gel Time (25°C) NOTE 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Nominal Value1.050.3020DryDryafter 24 hrs in drinking waterDryafter 24 hrs in drinking waterDryDryafter 24 hrs in drinking waterDryDryafter 24 hrs in drinking waterDry	Unit g/cm ³ Pa·s min	Test Method

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