

VICOTE® F817 Enhanced

Polyetheretherketone

Victrex plc

Message:

VICOTE F817 can be applied to most ferrous and non ferrous metals. Cast metals need to be de-gassed in an oven to prevent pin holes in the coating surface. Aluminium and other thermally sensitive substrates may be coated however the mechanical properties of the substrate may be affected when exposed to VICOTE processing temperatures.

The VICOTE F817 enhanced adhesion grade can be used on metal substrates where limited surface roughening is allowed or desired. When using this VICOTE grade the adhesion to a non-roughened or grit blasted surface is much higher than using the standard VICOTE dispersions. VICOTE F817 will withstand 24 hours boiling water test on non-grit blasted stainless steel without loss of adhesion.

Note: Although roughening the metal surface may not be required, removal of oils and greases must be undertaken to obtain the optimum adhesion. Rust and mill scale would need to be removed by conventional grit blasting while either thermal degreasing or a conventional vapour degreasing step should be employed to remove oils and greases. Once this is done the substrate should not be handled with bare hands.

Note: Phosphate pretreated substrates are not recommended for VICOTE grades as the high processing temperatures required for processing can result in de-lamination of the coating.

General Information			
Features	Good Adhesion		
Uses	Adhesives		
	Coating Applications		
Agency Ratings	FDA 21 CFR 175.300		
Forms	Liquid		
Processing Method	Coating		
	Spraying		

Physical	Nominal Value	Unit	Test Method
Density (25°C)	1.15	g/cm ³	ISO 2811
pH	10.0		Internal Method
Viscosity (25°C)	30.0	sec	ISO 2431
Weight - Solids	40	%	Internal Method
Adhesion Strength - 24 hr Boiling Water ¹	0		Internal Method
Conical Bend	3.00Pass	mm	ISO 6860
Cross Hatch Adhesion ²			ISO 2409
Aluminum	0		
Mild Steel	0		
Stainless Steel	0		
Direct Impact ³			ISO 6272
Height	100.00	cm	
Indentation depth	1.50	cm	
Weight	1000	g	
Konig Hardness (40.0 to 50.0 µm)	2.0	min	ISO 1522
Salt Spray - Degree of rusting	Ri/1		ISO 4628


Theory Volume Solids	28	%	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ⁴	343	°C	DSC
NOTE			
1.	Rating: 0 to 5, on non-grit blasted stainless steel		
2.	Rating 0 to 5		
3.	Part 1		
4.	Peak		

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