

Product Data Sheet

AkzoNobel Powder Coatings

Resicoat® EL201 Coating for Cores and Busbars by Electrostatic Spray Application HFF09QF Safety Orange

Product Description

Resicoat® EL201 HFF09QF is a one part, 100 % solids, epoxy powder coating for insulation of cores, wire and busbars. Designed for electrostatic spray application requiring post cure, it has UL 94 (V-0) approval with good resistance to heat, chemicals and moisture. The coating has a high level of flexibility and consistent edge coverage.

		Typical Value	Method	
Powder Properties	Chemical type	Ероху		
	Gel Time	45 - 85 sec	ASTM D4217	
	Specific gravity	1.45 ± 0.05 g/cm³ (Calculated)		
	Coverage @ 1.0 mil	149 ft²/lb/mil (Calculated)		
	Storage Stability	6 months from date of manufacture at ≤ 75°F (23° C) 9 months from date of manufacture at ≤ 60°F (15° C)		
Application Data	Application Method	Electrostatic Spray onto Hot Part		
	Recommended Film Thickness	4 – 12 mils (100μm - 300μm)		
	Curing schedule (At Object Temperature)	Preheat: Object temp at 300 - 325°F (149 – 163°C) Postheat: 10 - 15 minutes at 320 - 356°F (160 - 180°C)		
Material Properties	Appearance	Smooth		
	Gloss level (Gardner 60°)	> 70 Units		
	Hardness	> 90	DIN EN ISO 2815	
	Glass Transition Temperature	Tg2 > 212°F (100°C)	DSC 20K/min.	
	Water Soak	2.5%	2h, 90°C (Free Film)	
	Abrasion (CS17, 1000 cyc, 1Kg)	10 mg loss	ASTM D 4060 (Taber)	
	Cross Cut	Gt 0	DIN EN ISO 2409	
	Thermal Conductivity	0.164 W/(m*K)	ASTM E1461	
	Specific Heat	1.090 J/g/K	ASTM E2716	
Typical Electrical	Specific Surface Resistivity	> 10 ¹³ Ω	IEC 60093	
Properties	Dielectric Strength	> 30 kV/mm	IEC 60243-1	
	Dissipation factor tan δ 25° C 105° C	< 0.01 < 0.01	ASTM D 150 ASTM D 150	
	Dielectric constant (100 Hz – 1 MHz)	4.0	ASTM D 149	
	Comparative Tracking Index	CTI 500 M	DIN EN 60112	
	Thermal Expansion Coefficient	4,9 x 10 ⁻⁵ in/in/°C	ASTM D 696	
	Thermal Emission Factor	0.88 ± 0.02	(90 – 150°C)	
	Temperature Index	130°C	IEC 60216-1	
Pre-treatment	Steel surfaces to be coated must be essential to pre-treat components princ phosphate of ferrous metals im	orior to the application of Resic		





our knowledge and on current laws: any person using the product for any purpose other than that specifically recon in the technical data sheet without first obtaining written confirmation from us as to the suitability of the produc intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet product if available. All advice we give or any statement made about the product by us (whether in this data otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the subthe many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice are subject to our standard terms and conditions of sale. You should request a copy of this document and review it. The information contained in this data sheet is subject to modification from time to time in the light of experience policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to the substitution of the substit	Application	Resicoat® EL powders can be applied by manual or automatic electronic spray equipment or via fluid bed for high film builds. It is recommended that for consistent application and appearance product be fluidized during application. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.			
Disclaimer IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present our knowledge and on current laws: any person using the product for any purpose other than that specifically reconsing the technical data sheet without first obtaining written confirmation from us as to the suitability of the product intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet product if available. All advice we give or any statement made about the product by us (whether in this data otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substitute many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance that the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice are subject to our standard terms and conditions of sale. You should request a copy of this document and review it. The information contained in this data sheet is subject to modification from time to time in the light of experience policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to the continuous development.	Approvals				
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