

Product Data Sheet

AkzoNobel Powder Coatings

	Resicoat [®] EL Epoxy Powder Coating fo HGD45QF (Formerly AG1 ECB-1363A Red 203					
Product Description	Resicoat® EL HGD45QF ECB-1363A Red 203 is an electrical grade functional epoxy powder coating designed for use in a wide variety of electrical, mechanical, and chemical applications. Made of hard, high edge coverage materials, HGD45QF is ideal for the integral insulation of electric motor cores, low and high voltage bus bars, hermetic connectors, and watt-hour meter coils.					
Powder Properties	Chemical type	Ероху				
	Appearance	Smooth				
	Gloss level (Gardner 60°)	65 ± 5				
	Gel Time	ASTM D4217	45 – 85 sec			
	Specific gravity	1.75 ± 0.05 g/cm ³	(Calculated)			
	Coverage @ 1.0 mil	110 ft ² /lb/mil (Calculated)				
	Storage	Maximum 80°F				
	Shelf life	12 months				
	Particle Size Disribution	Alpine Jet Sieve	44µm: 65 – 100% Retention			
			105 μm: 35 – 50% Retention			
			210 µm: 0 – 4% Retention			
			250 μm: 0% Retention			
Application Data	Application Method	Fluid Bed				
	Recommended Film thickness	10 – 120 mils (250	μ - 3000μ)			
	Curing schedule (At Object Temperature)	Preheat: Object te Postheat: 10 minu				
Typical Performance Charachteristics	Hardness, Shore D	ASTM D2240	94			
	Tensile Strength	ASTM D638	7500 psi			
	Edge Coverage	ASTM 2967	>45%; Method "A" @ 12-18 mils			
	Thermal Conductivity	ASTM E1461	0.406 W/(m*K)			
	Coefficient of Thermal Expansion	ASTM D696	3.4 x 10 ⁻⁵ in/in/°C			
	Dielectric Constant		5.8			
	Dielectric Strength	ASTM D149	800 volts/mil			
	Thermal Shock Resistance		Passes 12 cycles (+400°F to -20°F)			
Pre-treatment	Steel surfaces to be coated must be clean and free from grease. For maximum protection, it is essential to pre-treat components prior to the application of Resicoat [®] EL . Iron phosphate and zinc phosphate of ferrous metals improve corrosion resistance.					
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.					





Approvals	This product is UL OCTD2.E34521 recognized to UL Designation ECB-1363A. For UL						or UL		
	OCTD2.E34521, following is the applicable data.								
	Min Film Thickness (mm)	Metal Thickness (mm)	Flame Class UL-94	нш	HAI	RTI Elec	RTI Imp	RTI Str	СТІ
	0.05	3.3	V-0	-	-	130	130	130	0
	0.25	1.0	-	0	0	130	130	130	-
Safety Precautions	Please consult the Safety Datasheet (SDS).								
Disclaimer	IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the 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 of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advices given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.								
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Product History	Through acquisitions of companies over the years, this product has been renamed several times throughout the years.								
	Corvel 17-6007A – Red 203 was introduced by Polymer Corp in the early 1980's.								
	AG111QF Interpon 100 – Product was renamed when AkzoNobel acquired Rohm & Haas ir 2010.							& Haas in	
	HGD45QF Resicoat EL – Product is re-coded to align with business' best practice in Oct 2020						Oct 2020.		

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