



Functional Powder Coatings

Resicoat® EL

Insulation of Electric Motor cores, Busbars, Connectors and Coils by Fluidized Bed Application

Code: HLC19QF

Product Description

Resicoat® EL HLC19QF (Corvel 82033, 17-7004) is a one part, 100 % solids, epoxy powder coating for use in a wide variety of electrical, mechanical and chemical applications. As hard, high edge coverage material Resicoat® EL HLC19QF is ideal for the integral insulation of electric motor cores, low and high voltage busbar, hermetic connectors and watt-hour meter coils.

Powder Properties

	Typical value	Method
Binder system	Epoxy resin	
Specific gravity	1.94 – 2.04 g/cm ³	ISO 8130-2
Coverage (ft²/lb/mil)	9.7 sq.ft @ 10 mils	calculated
Gel time at 200 °C	40 – 70 sec.	modified ISO 8130-6
Storage stability	12 months from delivery date at ≤ 73 °F (23 °C)	

Application Properties

Preheating temperature	375 °F (190 °C) 20 minutes or metal temperature	
Post curing	350 °F (177 °C) 10 minutes or 375 °F (190 °C) 8 minutes	
Particle size distribution	< 300 µm = 100 % < 210 µm = 98 – 100 % < 44 µm = 30 – 40 %	ISO 8130-1

Material Properties

Color	gray	
Recommended film thickness	10 – 100 mils (250 – 2500 µm)	
Impact resistance	pass 160 in. lbs	ASTM D-2794 (5/8" indenter)
Hardness, Shore D Durometer	92	ASTM D-2240
Dielectric strength at 10 mils	900 volts/mil	ASTM D-149
Dielectric constant	5.75	ASTM D-150 – one mc @ 77 °F (25 °C)

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Disclaimer: This Product Data Sheet is based on the present state of our knowledge and on current laws. The data referring to Powder Properties, Application Data and Physical Tests is based on lab based samples. Factors such as quality or condition of the substrate may have an effect on the use and application of the product. It remains the responsibility of the user to test thoroughly if the product is applicable for the intended use. The use of the product beyond our recommendation releases us from our responsibility, unless we have recommended the specific use in writing. 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. We are not liable for any application-technological advice. The Product Data Sheet shall be updated from time to time. Please ensure you have the latest version before using the product. All products and Product Data Sheets are subject to our standard terms and conditions of sale (GCS). You can receive the latest copy of GCS via internet or our post address. Brand names mentioned in this Product Data Sheet are trademarks of or are licensed to the AkzoNobel group.