

## Product Datasheet

### Resicoat® EL Coating for Chokes / Busbars by Fluidized Bed Application Code: HGC20R

Product Description	Resicoat® EL HGC20R is a 100 % solids, epoxy powder coating for the insulation of chokes, busbars and electrical devices/connections. It is designed for fluidized bed application and meets UL 94 (V-0). Resicoat® EL HGC20R has an excellent resistance against heat, chemicals and moisture. The coating has an excellent thermal endurance according IEC 60455-3-11 with a high level of flexibility and consistent edge coverage.		
Powder Properties		Typical value	Method
Powder Properties	Binder system	Epoxy	
	Density	1.40 – 1.50 g/cm <sup>3</sup>	ISO 8130-2
	Gel time at 200° C	30 – 50 sec.	modified ISO 8130-6
	Storage stability	6 months from date of manufacture at ≤ 23° C	
Application Data	Preheating temperature	180 – 220° C object temperature	
Post cure conditions	e. g. 5 mm steel 190° C / 5 min.		
Particle size distribution	< 32 µm = 10 – 25 %		Malvern
	< 200 µm = 99 – 100 %		ISO 8130-1
Material Properties	Color	redbrown, ca. RAL 3011 GL	
Recommended film thickness	200 – 300 µm		
Flow	smooth		
Gloss at 60° angle	70 – 90 units		ISO 2815
Cross cut	Gt 0		DIN EN ISO 2409
Impact resistance	> 5 Joule		DIN 30677-2
Elongation	> 5 %		DIN 30677-2
Hardness	> 90		DIN EN ISO 2815
Water risk class	2		
Comparative Tracking Index	CTI 500-0.8 / CTI 300M-1.6		DIN EN ISO 60112
<b>Tests acc. UL 746 A:</b>			
Water absorption (40 h / 23° C)	0 %		ASTM D 570
Dissipation factor dielectric constant	0.0070		ASTM D 150
Surface resistivity	> 10 <sup>15</sup> Ω		ASTM D 257
Volume resistivity	> 10 <sup>15</sup> Ω		ASTM D 257
Dielectric strength	= 45 kV/mm		ASTM D 149
Approval	UL 94 (Flame retardancy)	V-0	Resicoat® EL HGC20R meets UL 94 V-0 (to be approved on customers request)
Temperature index	130° C		IEC 60216-1

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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.