

# Product Datasheet



**AkzoNobel**  
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## Functional Powder Coatings

### Resicoat<sup>®</sup> EL

#### Coating for Cores by Electrostatic Spray Application

Code: HGG02R

<b>Product Description</b>	Resicoat <sup>®</sup> EL HGG02R is a one part, 100 % solids, epoxy powder coating for insulation of cores. Designed for electrostatic spray application requiring post cure, it has UL 94 (V-0) approval with good resistance against heat, chemicals and moisture. The coating has a high level of flexibility and consistent edge coverage.		
<b>Powder Properties</b>		<b>Typical value</b>	<b>Method</b>
	<b>Binder System</b>	Epoxy	
	<b>Density</b>	1.50 – 1.60 g/cm <sup>3</sup>	ISO 8130-2
	<b>Gel time at 160° C</b>	60 – 120 sec.	ISO 8130-6
	<b>Storage stability</b>	4 months from delivery date at ≤ 23° C	
	<b>MSDS</b>	DE 951	
<b>Application Data</b>	<b>Curing conditions</b>	180 – 200° C object temperature, 10 – 15 min.	
	<b>Particle size distribution</b>	< 32 µm = 30 – 50 %	ISO 8130-1
		< 160 µm = 98 – 100 %	
<b>Material Properties</b>	<b>Colour</b>	brown	
	<b>Recommended film thickness</b>	150 – 400 µm	
	<b>Flow</b>	smooth	
	<b>Gloss at 60° angle</b>	> 70 units	DIN 67530
	<b>Hardness</b>	> 90	DIN EN ISO 2815
	<b>Glass transition temperature</b>	Tg2 = 101° C	DSC 20K/min.
	<b>Water absorption 2 h 90° C</b>	< 2.5 %	
<b>Typical Electrical Properties</b>	<b>Specific surface resistivity</b>	> 10 <sup>13</sup> Ω cm	DIN 53482-A
	<b>Dissipation factor tan δ, 25 – 90° C</b>	0.0092 (60 Hz – 66 Hz)	
	<b>Dielectric constant, 25 – 90° C</b>	5.58 (60 Hz – 66 Hz)	
	<b>Linear expansion coefficient</b>	40 – 80° C, 5.8 x 10 <sup>-5</sup> K <sup>-1</sup>	
		110 – 150° C, 32 x 10 <sup>-5</sup> K <sup>-1</sup>	
<b>Approvals</b>	<b>UL 94 (flame retardancy)</b>	V-0	
<b>Date of issue:</b>	2002, November 27 <sup>th</sup>		
<b>Authorized by:</b>	GK		
<b>Revision Number:</b>			

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.

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