

## Product Datasheet

### Resicoat® EL Coating for Electrical Insulation by Electrostatic Spray Application Code: HZG15R

		Typical value	Method
<b>Powder Properties</b>	<b>Binder system</b>	Epoxy-Polyester	
	<b>Density</b>	1.10 – 1.30 g/cm <sup>3</sup>	ISO 8130-2
	<b>Gel time at 200° C</b>	45 – 75 sec.	modified ISO 8130-6
	<b>Storage stability</b>	12 months from date of manufacture at ≤ 23° C	
<b>Application Data</b>	<b>Curing conditions</b>	15 min., 180° C object temperature	
	<b>Particle size distribution</b>	< 10 µm < 10 % < 32 µm = 30 – 40 % < 160 µm > 99.5 %	Malvern Malvern ISO 8130-1
<b>Material Properties</b>	<b>Color</b>	transparent clear	
	<b>Recommended film thickness</b>	100 – 300 µm	
	<b>Flow</b>	smooth	
	<b>Gloss at 60° angle</b>	> 100 units	ISO 2813
	<b>Cross cut test</b>	Gt 0	ISO 2409
	<b>Pencil hardness</b>	F	ISO 15184
	<b>Glass transition temperature</b>	95 ± 5° C	ISO 11357-2
	<b>Thermal conductivity</b>	0.25 W/(m·K)	DIN EN 821
	<b>Adhesive tensile strength</b>	> 1500 psi	ISO 4624
	<b>Conical mandrel bend</b>	passes all diameters at -40° C	ASTM D522 – Method A
	<b>Salt spray test</b> (1440 hours)	degree of blistering: 0 degree of rusting: 0 degree of edge rusting: 0	ISO 9227
	<b>Thermal shock test</b> (30min -40° C, 30min 85° C)	no change after 1000 cycles	
	<b>High temperature and humidity endurance test</b> (85° C, 85 % r.H.)	no change after 1500 hours	
<b>Typical Electrical Properties</b>	<b>Dielectric strength</b>	> 45 kV/mm	IEC 60243-1
	<b>Volume resistivity</b>	> 10 <sup>15</sup> Ω·cm	IEC 60093
	<b>Comparative tracking index</b>	CTI 600	IEC 60112
	<b>Relative permittivity (50Hz – 1MHz)</b>	1.5 – 2.0	IEC 62631-2-1
	<b>Dissipation factor (tan δ)(50Hz – 1MHz)</b>	0.001 – 0.015	IEC 62631-2-1

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<b>Chemical Resistance</b>	<b>10% ammonium hydroxide</b>	2 weeks – no change	
	<b>Propan-2-ol</b>	24 hours – no change	
	<b>1:1 mixture of water and Zerex G</b> (stored at -30° C, 23° C and 70° C)	24 hours – no change	
<b>Date of issue:</b>	<b>February 9, 2021</b>		
<b>Authorized by:</b>	<b>GK</b>		
<b>Revision no.:</b>	<b>2</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.