

## Product Datasheet

### Resicoat® EL Coating for Busbars by Fluidized Bed Application Code: HGD27R (517.70.09 Maicro ELT)

|                                      |  |  |                        |
|--------------------------------------|--|--|------------------------|
| <b>Product Description</b>           | Resicoat® EL HGD27R (517.70.09 Maicro ELT) is a one part, 100 % solids, epoxy powder coating for insulation of wire and busbars. Designed for fluidized bed application it has 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 – 1.70 g/cm <sup>3</sup>                | ISO 8130-2             |
|                                      | <b>Gel time at 200° C</b>  | 18 – 30 sec.                                 | modified ISO 8130-6    |
|                                      | <b>Storage stability</b>   | 4 months from date of manufacture at ≤ 23° C |                        |
| <b>Application Data</b>              | <b>Preheating temperature</b>  | 200° C object temperature                    |                        |
|                                      | <b>Post cure conditions</b>  | 15 min., 200° C object temp.                 |                        |
|                                      | <b>Glass transition temperature Tg2</b>  | 100 – 110° C                                 | Inflection point (DSC) |
|                                      | <b>Particle size distribution</b>  | < 32 µm = 10 – 25 %<br>< 300 µm = 99 – 100 % | Malvern<br>ISO 8130-1  |
| <b>Material Properties</b>           | <b>Color</b>   | red, ca. RAL 3000                            |                        |
|                                      | <b>Recommended film thickness</b>  | 250 – 450 µm                                 |                        |
|                                      | <b>Flow</b>  | smooth                                       |                        |
|                                      | <b>Gloss at 60° angle</b>  | 70 – 90 units                                | ISO 2813               |
|                                      | <b>Cross cut</b>   | Gt 0   | DIN EN ISO 2409        |
|                                      | <b>Impact resistance</b>   | > 10 Joule                                   | DIN 30677-2            |
|                                      | <b>Elongation</b>  | 2 – 5 %                                      | DIN 30677-2            |
|                                      | <b>Hardness</b>  | 100  | DIN EN ISO 2815        |
| <b>Typical Electrical Properties</b> | <b>Specific surface resistivity</b>  | > 10 <sup>13</sup> Ω                         | IEC 60093              |
|                                      | <b>Dielectric strength</b>   | 40 kV/mm                                     | IEC 60243-1            |
|                                      | <b>Comparative Tracking Index</b>  | CTI 500-0.3                                  | IEC 60112              |
| <b>Date of issue:</b>                | <a href="#">July 22, 2016</a>  |  |                        |
| <b>Authorized by:</b>                | GK   |  |                        |
| <b>Revision no.:</b>                 | 2  |  |                        |

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.