

<b>Part. No.:</b>	<b>55RG2C46320</b> GREY 9006 PERL - FINE TEXTURED - SEMIMATT
<b>Material Approvals:</b>	Qualicoat n. P-0655, Class 1 – Qualisteelcoat PE-0064, PE-0065, PE-0072
<b>Product description</b>	Powder coating with excellent light and weather resistance, specifically formulated for use on architectural aluminium components. It offers higher levels of gloss retention, colour stability with film integrity to ensure long term along with aesthetic performance. RIPOL Serie 55R is certified according to Qualicoat Class 1 standards and conforms to the requirements of EN 12206 'Paints and varnishes - Coating of aluminium and aluminium alloys for architectural purposes'.
<b>Chemical composition</b>	TGIC-free polyester.
<b>Surface appearance</b>	Fine texture matt aspect
<b>Product range</b>	Available in a wide stock range of RAL shades, also special colors by arrangement.

<b>Curing conditions</b> (Object Temperature)	<b>15-25 minutes at 180 °C;</b>	<b>12-18 minutes at 190 °C;</b>	<b>10-12 minutes at 200 °C.</b>
<b>Application method</b>	Suitable for Corona or Tribo charging equipment.		
<b>Storage, shelf life</b>	The product has a shelf life of 36 months from date of manufacture if stored in its original packing in a fresh and dry environment at a temperature below 30 °C.		
<b>Density:</b>	1,3-1,6 Kg/dm <sup>3</sup> (depending on type and colour)		
<b>Theoretical yield</b>	May be calculated using the formula: $m^2/Kg = 1000 / (S \times P)$ where, S = film thickness in $\mu m$ ; P = density.		
<b>Pre-treatment</b>	<p>The overall performance of the coating system is dependent on the nature of the substrate and the type and quality of the pretreatment, it is recommended to follow the pretreatment supplier's instructions.</p> <p>The substrate must be free of oxidation products, or residue from scale, oil, grease. For optimal protection on aluminium architectural components is suitable a chromate conversion coating or chrome-free pretreatment, only the approved systems from Qualicoat should be used.</p> <p>Steel substrate requires zinc phosphate. For improved corrosion protection on steel and galvanised steel, the use of RIPOL protection primer <i>CORROCARE ABP</i> is recommended (Qualisteelcoat Approvals).</p>		

<b>Test Conditions</b>	The technical data provided below are typical for this product when applied as follows: Substrate: Aluminium panel, chromatised (0,8 mm AlMg1) Coating thickness: 70-90 $\mu m$ Object temperature: 180 °C, 15 min.	
<b>Mechanical, Chemical and Durability tests</b>	Adhesion, cross-cut: Gt 0 Erichsen cupping: > 6 mm Hardness Buchholz: $\geq$ 80 Reverse and direct Impact: $\geq$ 2.5 Nm Flexibility: Pass 5 mm (tape pull test) Mortar Resistance: No effect after 24 hours Resistant to diluted acids, alkali, and oils at normal temperatures Accelerated weathering, 1000h (Xenon lamps): >50% residual gloss (*) Accelerated weathering, 300h (UV-B lamps): >50% residual gloss (**) Exterior durability, after 1 year Florida (5° south): > 50% residual gloss Condensation test, 1000h: corrosion area >1 mm from scribe Acetic Acid Salt spray, 1000h: <16 mm <sup>2</sup> corrosion/10 cm, no blistering Humidity resistance with SO <sub>2</sub> (Kesternich): > 24 cycles; infiltration $\leq$ 1 mm	EN ISO 2409 EN ISO 1520 EN ISO 2815 EN ISO 6272 EN ISO 1519 EN ISO 12206-1(sect. 5.9) EN ISO 16474-2 EN ISO 16474-3 EN ISO 2810 EN ISO 6270-2 EN ISO 9227 EN ISO 3231 (0.2l SO <sub>2</sub> )

Colour retention accords with Quality Regulations: (\*) QUALICOAT ([www.qualicoat.net](http://www.qualicoat.net)) - (\*\*) GSB AL 631 ([www.gsb-international.de](http://www.gsb-international.de))

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