

**Product**

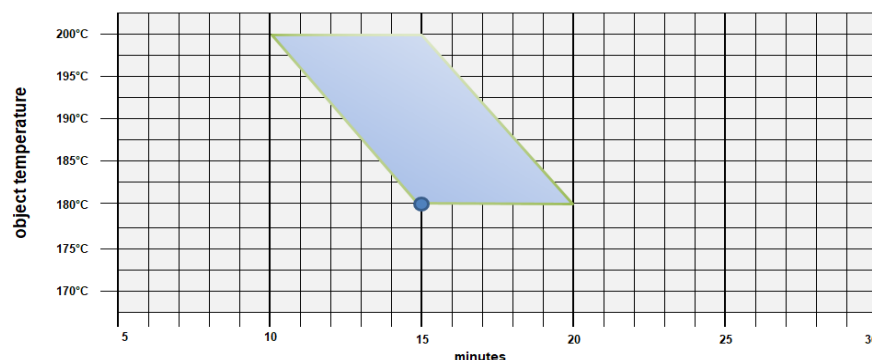
Field of application	<ul style="list-style-type: none"> <li>powder coating system for exterior* applications like street furniture, fences, metal facades, parking ticket machines, aluminium rims etc.</li> </ul>										
Properties	<ul style="list-style-type: none"> <li>label-free polyurethane resin base</li> <li><b>special development with very good ANTI-GRAFFITI properties</b></li> <li>colour stability at different curing conditions</li> <li>excellent scratch resistance and surface hardness</li> <li>good chemical and solvent resistance</li> <li>good mechanical properties</li> <li>good flow properties</li> </ul>										
Details	<table border="0"> <tr> <td>• colour shade</td> <td>colorless</td> </tr> <tr> <td>• surface</td> <td>smooth</td> </tr> <tr> <td>• gloss</td> <td>high gloss &gt;90 GU (60° angle)</td> </tr> <tr> <td>• density</td> <td>1,17 g/ml</td> </tr> <tr> <td>• spreading rate</td> <td>14 - 15 m<sup>2</sup>/kg (at 60 µm layer thickness)</td> </tr> </table>	• colour shade	colorless	• surface	smooth	• gloss	high gloss >90 GU (60° angle)	• density	1,17 g/ml	• spreading rate	14 - 15 m <sup>2</sup> /kg (at 60 µm layer thickness)
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Storage	<ul style="list-style-type: none"> <li>12 months at dry and cool storage up to max. +25°C</li> </ul>										

**Processing**

Substrates	pre-treated parts of aluminium, steel and galvanized steel						
Preparation	<ul style="list-style-type: none"> <li>grease, oil, tinder and oxidation products have to be removed from surface before coating</li> </ul>						
Pre-treatment	<table border="0"> <tr> <td>aluminium</td> <td>chromating, chrome-free pre-treatment, pre-anodisation</td> </tr> <tr> <td>steel</td> <td>blasting, iron-phosphating, zinc-phosphating</td> </tr> <tr> <td>galvanized steel</td> <td>sweeping, chromating, chrome-free pre-treatment, zinc-phosphating</td> </tr> </table>	aluminium	chromating, chrome-free pre-treatment, pre-anodisation	steel	blasting, iron-phosphating, zinc-phosphating	galvanized steel	sweeping, chromating, chrome-free pre-treatment, zinc-phosphating
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galvanized steel	sweeping, chromating, chrome-free pre-treatment, zinc-phosphating						

The coater has to check the suitability of pre-treatment referring to customer demand previously.

Application	<ul style="list-style-type: none"> <li>electrostatic and tribo</li> </ul>
Layer thickness ISO 2360	<ul style="list-style-type: none"> <li>60 - 100 µm (depending on colour shade and application)</li> </ul>
Curing cycle	<ul style="list-style-type: none"> <li>15 min - 180°C ( ● recommended)</li> </ul>



Recoatibility	<ul style="list-style-type: none"> <li>the product <b>CANNOT</b> be overpainted due to its anti-graffiti properties</li> </ul>
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Test results		
Proved substrate	• aluminum 0,8 mm, pretreated according to GSB/QUALICOAT, layer thickness 60 µm	
Physical/Mechanical	• cross cut test DIN EN ISO 2409	Gt 0
	• bending test DIN EN ISO 1519	5 mm no cracks
	• impact test ASTM D2794	>20 inchp. no cracks on both sides
	• Erichsen cupping test DIN EN ISO 1520	≥ 6 mm
	• Buchholz hardness DIN EN ISO 2815	at least 80
Anti-graffiti resistance	• wax stick	cleaning with a cloth
	• shoe cream	cleaning with a cloth
	• felt pen (water-based)	cleaning with a cloth
	• felt pen (solvent-based)	cleaning with alcohol
	• spray paint (solvent based) gem. ASTM D6578	cleaning with alcohol
Certificates	• on request	

Notes	
Occupational safety/ health environmental protection	• please note information of corresponding safety data sheet

This technical data sheet is based on our current state of knowledge. It is not a product specification.

The technical data sheet is for information only and without any responsibility. It does not release to test our products previously regarding suitability according to operation purpose. CENARIS reserves the right of changes without notification.

Therefore only the current version is valid. If in doubt, please contact us.

**The current technical data sheets and safety data sheets can be found at [www.cenaris.com/downloads](http://www.cenaris.com/downloads)**

\* only with overcoating (colorless without a previous topcoat cannot be used outdoors)