



# NEO HEAT RESISTANT

## ALUMINIUM & BLACK

PRODUCT CODE: HR00/HR01

TECHNICAL DATA SHEET NO. 06-Specialised Products

NOVEMBER 2018

<b>Product Description</b>	A new generation silicone resin based, long-life, interior / exterior, high shine aluminium & black heat resistant coating for a wide range of substrates/objects that need a highly durable and heat resistant but cost effective finish. Heat resistance: 200 degrees Celsius for long periods; 250 degrees Celsius for short periods.	
<b>Application Areas</b>	<ul style="list-style-type: none"> <li>Interior and exterior use.</li> <li>Primed metal and other substrates.</li> <li>The coating can be used on boilers, steam pipes, metal chimneys and other objects with a hot surface.</li> </ul>	
<b>Product Features</b>	<ul style="list-style-type: none"> <li>Highly durable and UV resistant for the harsh Namibian climate.</li> <li>Excellent adhesion to range of properly prepared substrates.</li> <li>Very heat resistant for long term exposure to temperatures of up to 200 degrees Celsius (250 degrees Celsius for short periods).</li> <li><b>NEO Heat Resistant</b> should not be used on exhaust pipes or other extremely hot objects.</li> <li>Two coats of <b>NEO Heat Resistant</b> are used for best results.</li> </ul>	
<b>Product Data</b>	<b>Resin Base</b>	Synthetic hydrocarbon resin
	<b>Drying Time</b>	Touch dry: ±1 hour Hard dry: 3-4 hours
	<b>Solid Matter by Content</b>	By volume: 22% By mass: 33%
	<b>Film Thickness</b>	± 20 microns
	<b>Spreading Rate</b>	8-12 square metres per litre. Although the spreading rate will vary with porosity and type of substrate, for uncoated new surfaces work on 8-10 square metres per litre for the first coat and 10-12 square metres per litre for subsequent coats and when applied to sealed, previously painted substrates.
	<b>Surface Appearance</b>	Glossy
<b>Application Details</b>		
• <b>Mixing</b>	Always stir well before use with a flat paddle.	
• <b>Application Method</b>	Brush, roller or airless spray.	
• <b>Thinning</b>	<b>NEO Heat Resistant</b> is ready for use un-thinned; thinning with <b>NEO M-Thinner</b> (mt01) will reduce its hiding power. Only for spray application, thin 20% with <b>NEO M-Thinner</b> (mt01).	
• <b>Cleaning</b>	<b>NEO M-Thinner</b> (mt01).	
• <b>Application</b>	<ul style="list-style-type: none"> <li>Stir well before use.</li> <li><b>NEO Heat Resistant</b> is ready for use un-thinned; thinning will reduce its hiding power.</li> <li>Two coats of <b>NEO Heat Resistant</b> are used for best results.</li> <li>With brush, roller or airless spray, apply a generous coat of <b>NEO Heat Resistant</b>. Only for spray application, thin 20% with <b>NEO M-Thinner</b> (mt01).</li> <li>Allow to dry 4-6 hours before recoating.</li> <li>With brush, roller or airless spray, apply a second generous coat.</li> <li>Although the spreading rate will vary with porosity and type of substrate, for uncoated new surfaces work on 8-10 square metres per litre for the first coat and 10-12 square metres per litre for subsequent coats and when applied to sealed, previously painted substrates.</li> <li>Only apply in well ventilated areas and keep away from all ignition sources, flames and sparks.</li> <li>Clean up application equipment with <b>NEO M-Thinner</b> (mt01).</li> <li>Do not eat, drink or smoke while applying.</li> <li>Do not apply before 09:00 and after 16:00 in the winter.</li> <li>Do not apply exterior if it looks like rain will occur within 4-6 hours of application.</li> </ul>	



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<b>Surface Preparation</b>	
<ul style="list-style-type: none"> <li><b>Mild Steel (Renovation)</b></li> </ul>	<ul style="list-style-type: none"> <li>Affected areas need to be cleaned back to bright metal and spot primed with <b>NEO Corrotec</b> (ct00).</li> <li>DO NOT USE ANY OTHER TYPE OF PRIMER, ONLY <b>NEO CORROTEC</b> (ct00) IS HEAT RESISTANT AND SHOULD BE USED.</li> <li>With brush, roller or airless spray, apply a generous coat of <b>NEO Heat Resistant</b>. Only for spray application, thin 20% with <b>NEO M-Thinner</b> (mt01).</li> <li>Allow to dry 4-6 hours before recoating.</li> <li>With brush, roller or airless spray, apply a second generous coat.</li> </ul>
<ul style="list-style-type: none"> <li><b>Mild Steel (New)</b></li> </ul>	<ul style="list-style-type: none"> <li>Degrease surfaces with <b>NEO Metal Conditioner</b> (mc00) to remove the manufacturer's grease protective layer. This process is repeated until the surface is water break free.</li> <li>After drying the whole substrate is coated with <b>NEO Corrotec</b> (ct00).</li> <li>DO NOT USE ANY OTHER TYPE OF PRIMER, ONLY <b>NEO CORROTEC</b> (ct00) IS HEAT RESISTANT AND SHOULD BE USED.</li> <li>With brush, roller or airless spray, apply a generous coat of <b>NEO Heat Resistant</b>. Only for spray application, thin 20% with <b>NEO M-Thinner</b> (mt01).</li> <li>Allow to dry 4-6 hours before recoating.</li> <li>With brush, roller or airless spray, apply a second generous coat.</li> </ul>
<ul style="list-style-type: none"> <li><b>Previously Painted Surfaces</b></li> </ul>	<ul style="list-style-type: none"> <li>Remove all of the previous coatings with <b>NEO Paint Remover</b> (pr00).</li> <li>Wash off and allow to dry.</li> <li>Prime metal with <b>NEO Corrotec</b> (ct00).</li> <li>DO NOT USE ANY OTHER TYPE OF PRIMER, ONLY <b>NEO CORROTEC</b> (ct00) IS HEAT RESISTANT AND SHOULD BE USED.</li> <li>With brush, roller or airless spray, apply a generous coat of <b>NEO Heat Resistant</b>. Only for spray application, thin 20% with <b>NEO M-Thinner</b> (mt01).</li> <li>Allow to dry 4-6 hours before recoating.</li> <li>With brush, roller or airless spray, apply a second generous coat.</li> </ul>
<b>Colour Range and Quantities</b>	<ul style="list-style-type: none"> <li><b>NEO Heat Resistant</b> is available in shiny Aluminium and Black only.</li> <li>Available in 500ml, 1 litre and 5 litres.</li> </ul>
<b>Precautions</b>	<ul style="list-style-type: none"> <li><b>NEO Heat Resistant</b> is highly flammable and has a flashpoint of 37 degrees Celsius.</li> <li>Only apply in well ventilated areas.</li> <li>Do not eat, drink or smoke while applying.</li> <li>This product should not be used to coat extremely hot substrates such as car exhausts etc. as the product will break down.</li> </ul>
<b>Disclaimer</b>	NEO Paints can not be held liable if the product fails due to improper surface preparation or application.
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