

# PROFESSIONAL ACRYLIC ENGEN BLUE

PRODUCT CODE: REF 160

## TECHNICAL DATA SHEET

<b>Product Description</b>	Premium quality water-based semi-gloss enamel for interior and exterior use.													
<b>Intended Uses</b>	Used as a decorative and protective finish on interior and exterior mild steel, galvanised steel, timber and masonry.													
<b>Features &amp; Benefits</b>	<ul style="list-style-type: none"> <li>• Dries quickly to a tough durable finish with good weather resistance.</li> <li>• Low odour</li> <li>• Provides a smooth semi gloss finish</li> <li>• Water-based</li> </ul>													
<b>Product Information</b>	Appearance	Semi gloss												
	Colour	Engen Blue (REF 160)												
	Solids	Approx. 44 % by mass; 35 % by volume (typical)												
	S G	1,3 kg/ℓ (typical)												
	Recommended DFT per coat	Min.: 25 µm Max.: 35 µm												
	Theoretical spreading rate	10 m <sup>2</sup> /ℓ at 35 µm DFT												
	Viscosity at 23 °C	85-95 KU (typical)												
	Flash point	Non flammable												
<b>Application Details</b>	Mixing	Stir thoroughly with a flat paddle until homogeneous and stir periodically during use.												
	Method	Brush, mohair roller or conventional spray. <b>Conventional spray:</b> Suitable nozzle orifice 1 - 1,5 mm. Nozzle pressure 2,75 – 4,13 bar <b>NOTE:</b> Conventional spray could result in low applied DFT and two coats may be required to obtain specified thickness.												
	Thinning	Not recommended for brush and roller application. For Spray application thin with water up to 10% by volume												
	Cleaning	Water												
	Substrate	Well prepared, primed and undercoated surfaces.												
	Application Environment	<table border="1"> <thead> <tr> <th>Surface Temperature</th><th>Ambient Temperature</th><th>Relative Humidity</th></tr> </thead> <tbody> <tr> <td>Min: 10 °C</td><td>Min: 10°C</td><td>Min: 10%</td></tr> <tr> <td colspan="3">or 2 °C min. above dew point</td></tr> <tr> <td>Max: 40 °C</td><td>Max: 40 °C</td><td>Max: 85 %</td></tr> </tbody> </table>	Surface Temperature	Ambient Temperature	Relative Humidity	Min: 10 °C	Min: 10°C	Min: 10%	or 2 °C min. above dew point			Max: 40 °C	Max: 40 °C	Max: 85 %
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	Drying time	Touch dry 30min at 23 °C Dry to handle 4 h at 23 °C Overcoating 4 h at 23 °C <b>N.B.</b> Freshly painted windows, cupboard doors and drawers must be allowed to dry for at least 12 hours at 23 °C before closing.												
<b>Storage and Packaging</b>	Store away from direct sun, heat and severe cold. Packaging: 5 ℓ .													

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<b>Surface Preparation</b>	<p><b>N.B. For specific projects adhere to the specification that has been recommended.</b> Ensure that all surfaces are dry, sound and free from dust, dirt, grease and oil before painting.</p> <p><b>1 NEW WORK</b></p> <p><b>1.1 Cement plaster, concrete, brickwork:</b> Clean surfaces using <b>POLYCELL SUGAR SOAP POWDER</b> and allow to dry. Prime with <b>PROFESSIONAL GYPSUM AND PLASTER PRIMER (PP 700)</b>. Apply liberally in order to obtain an unbroken barrier coat to seal surface properly</p> <p><b>1.2 Gypsum plaster (e.g. Rhinolite, Cretestone), gypsum board (e.g. Rhinoboard):</b> Prime with <b>PROFESSIONAL GYPSUM AND PLASTER PRIMER (PP 700)</b>.</p> <p><b>1.3 Wood:</b> Sand smooth and dust off. Seal knots and resinous areas with <b>PLASCON KNOT SEAL (PK 2)</b>. Prime entire surface with <b>PROFESSIONAL WOOD PRIMER (PP 800)</b>.</p> <p><b>1.4 Mild steel:</b> Remove oil grease and other contaminants with <b>AQUASOLV DEGREASER (GR 1)</b>. Rinse thoroughly with water. Remove any rust by coarse sanding, mechanical grinding, etc. or with the appropriate <b>PLASCON REMOVAL COATING/RUST REMOVER</b> product. Prime with <b>METALCARE MILD STEEL PRIMER (UC 501)</b> or <b>METALCARE METAL WB PRIMER (MWP 1)</b>, followed by <b>PROFESSIONAL ALL PURPOSE UNDERCOAT (PU 800)</b> <b>N.B.</b> Mill-scale must be removed by abrasive blasting or mechanical grinding before coating.</p> <p><b>1.5 Galvanised steel:</b> Clean with <b>METALCARE GALVANISED IRON CLEANER (GIC 1)</b> to achieve a water break-free surface. Remove any red rust with scouring pads or sanding, wire brushing etc. back to clean bright metal. Spot prime areas where rust has been removed with <b>PROFESSIONAL GALVANISED IRON PRIMER (PP 1000)</b> or <b>METALCARE ETCH PRIMER (SNK 100 &amp; 200)</b>. Prime the entire surface with <b>PROFESSIONAL GALVANISED IRON PRIMER (PP 1000)</b> or <b>METALCARE METAL WB PRIMER (MWP 1)</b></p> <p><b>2 PREVIOUSLY PAINTED SURFACES</b></p> <p><b>2.1 Surfaces in poor condition:</b> Remove any rust or peeling paint with the appropriate <b>REMOVAL COATING/RUST REMOVER</b> product or by sanding, wire brushing etc. Rinse thoroughly with clean water. Spot prime bare areas with the appropriate primer.</p> <p><b>2.2 Surfaces in good condition:</b> Clean paintwork with <b>POLYCELL SUGAR SOAP POWDER CLEANER</b> solution and rinse thoroughly. Sand glossy enamel areas to a matt finish and apply a coat of <b>PROFESSIONAL ALL PURPOSE UNDERCOAT (PU 800)</b></p> <p><b>3 FILLING</b> Fill defects with the appropriate <b>POLYCELL POLYFILLA</b>. Fill wood and fibre-cement with <b>POLYCELL POLYFILLA MENDALL 90</b> and seal with <b>PROFESSIONAL GYPSUM AND PLASTER PRIMER (PP 700)</b>.</p>
<b>Application</b>	<ul style="list-style-type: none"> <li>Stir thoroughly with a flat paddle and apply by brush roller or spray. (See application details)</li> <li>Apply two coats to achieve complete obliteration.</li> </ul>
<b>Cautions</b>	<ul style="list-style-type: none"> <li>Not recommended for chemical environments.</li> <li>Heavy applications exceeding 200 µm WFT should be avoided to prevent sagging</li> </ul>
<b>Safety Precautions</b>	<ul style="list-style-type: none"> <li>Keep out of reach of children.</li> <li>Ensure good ventilation during application and drying.</li> <li>In case of skin contact, wash with soap and water or a recognised skin cleaner.</li> <li>Avoid contact with eyes – In case of contact, rinse eyes immediately with plenty of water and seek medical advice if symptoms persist.</li> <li>Harmful if swallowed. Do not induce vomiting. Seek medical attention.</li> <li>Refer to Material Safety Data Sheet for complete information.</li> </ul>

## DISCLAIMER

The recommendations contained herein are given in good faith and are meant to guide the specifier or the user. They are based on results gained from our tests and experiences and are believed to be reliable. No guarantee is implied by the recommendations contained herein since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.

**N.B.** Technology may change with time necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used.

**N.B.TO ORDER:** Quote product name, product code number, packaging and colour.

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