

# AQUAFast HIGH BUILD TANK LINING

PRODUCT CODE: EMS 9, 10 & 11

## TECHNICAL DATA SHEET

<b>Product Description</b>	Acrylonitrile emulsion tank lining.																															
<b>Intended Uses</b>	<ul style="list-style-type: none"> <li>For concrete storage tanks storing crude oil, salt water or brack water.</li> <li>Suitable for application to suitably prepared concrete.</li> <li>Airless spray application.</li> </ul>																															
<b>Features &amp; Benefits</b>	<ul style="list-style-type: none"> <li>Excellent sealing and crack bridging properties.</li> <li>Smooth semi-gloss finish.</li> <li>High opacity.</li> <li>Temperature resistance: Continuous: 50 °C Non-continuous: 90 °C.</li> <li>Low VOC.</li> </ul>																															
<b>Product Information</b>	Appearance Colours  SG @ 23 °C Generic type Solids Recommended DFT Recommended WFT Theoretical spreading rate  Practical spreading rate  VOC	Semi-gloss (EMS 10 & 11), Matt (EMS 9) Yellow oxide <b>Sealer</b> (EMS 9), Pink <b>Intermediate</b> (EMS 10), Red oxide <b>Finishing</b> (EMS 11) 1.1 - 1.4 (typical) Acrylonitrile emulsion 42 - 44 % by volume 100 – 120 µm (EMS 9), 150 -175 (EMS 10 & 11) 230 – 280 µm (EMS 9), 340 – 400 µm (EMS 10 & 11) 4.2 m²/L per coat @ 100 µm DFT (EMS 9). 2.51 m²/L per coat @ 175 µm DFT (EMS 10 & 11)). This serves as a guide only. The practical spreading rate will vary depending on the porosity and profile of the substrate, as well as the application technique and spray equipment used. < 16 g/L																														
<b>Application Details</b>	Mixing Method Thinning Cleaning Drying time	Stir thoroughly with a flat paddle until homogeneous. Airless spray: Tip size 17 – 21 thou. Brush and Roller for touch up purposes. Not Recommended - Ready for use Water Touch dry: 30 min. @ 23 °C <b>Overcoating times:</b> <table border="1"> <thead> <tr> <th>Temp</th><th>Min</th><th>Max</th></tr> </thead> <tbody> <tr> <td>10 °C</td><td>48 h</td><td>Indefinite</td></tr> <tr> <td>15 °C</td><td>24 h</td><td>Indefinite</td></tr> <tr> <td>23 °C</td><td>16 h</td><td>Indefinite</td></tr> <tr> <td>30 °C</td><td>12 h</td><td>Indefinite</td></tr> </tbody> </table> <b>Curing before Immersion:</b> <table border="1"> <thead> <tr> <th>Temp</th><th>Min</th><th>Max</th></tr> </thead> <tbody> <tr> <td>10 °C</td><td>7 Days</td><td>Indefinite</td></tr> <tr> <td>15 °C</td><td>7 Days</td><td>Indefinite</td></tr> <tr> <td>23 °C</td><td>5 Days</td><td>Indefinite</td></tr> <tr> <td>30 °C</td><td>5 Days</td><td>Indefinite</td></tr> </tbody> </table>	Temp	Min	Max	10 °C	48 h	Indefinite	15 °C	24 h	Indefinite	23 °C	16 h	Indefinite	30 °C	12 h	Indefinite	Temp	Min	Max	10 °C	7 Days	Indefinite	15 °C	7 Days	Indefinite	23 °C	5 Days	Indefinite	30 °C	5 Days	Indefinite
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<b>Storage &amp; Packaging</b>	Store in a cool, dry place away from direct sun, heat ≤30 °C and severe cold. Shelf life: 3 Months Packaging: 20 L																															

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<b>Surface Preparation</b>	Ensure that surfaces are sound, free from dust, dirt, grease and oil before painting
1.	<b>NEW WORK:</b>
1.1	<b><u>Concrete:</u></b> <b>The concrete must have a minimum of 30 MPa strength.</b> Wet abrasive blast concrete to test method ASTM – D-4259 to remove release agents, contaminants and laitance to produce a profile equivalent to ICRI standard CSP3. High pressure wash the wet abrasive cleaned concrete to remove abrasives, contaminants and cement fines. <b>N.B.</b> Soft under bound, friable and highly porous surfaces must be restored to a sound condition. After wet-abrasive blasting of the concrete, defects that need to be repaired can be done by applying a screed (scraper coat) of modified mortar which has been approved by an engineer, on to the mist sprayed water wet area.
2.	<b>REPAIR WORK:</b>
2.1	<b><u>Bridging cracks:</u></b> The coating system should be able to cope with cracks of up to 0.3mm in width that could appear in the concrete after application of the liner. Apply an extra coat of <b>AQUAFAST HIGH BUILD TANK LINING (EMS 10)</b> to achieve a dry film thickness of 1mm.
<b>Application</b>	<ul style="list-style-type: none"> <li>Wet the concrete area to be coated using stirrup pump and mist spray with water 10 min before the application of <b>AQUAFAST HIGH BUILD TANK LINING sealer coat (EMS 9)</b>.</li> <li>Apply one coat of <b>AQUAFAST HIGH BUILD TANK LINING sealer coat (EMS 9)</b> by airless spray to the required WFT and allow 16 h drying @ 23 °C. Apply one coat <b>AQUAFAST HIGH BUILD TANK LINING intermediate coat (EMS 10)</b> by airless spray to the required WFT and allow 16 h drying @ 23 °C. Apply one coat of <b>AQUAFAST HIGH BUILD TANK LINING finishing coat (EMS 11)</b> by airless spray to the required WFT and allow 16 h drying @ 23 °C.</li> <li>The additional coats applied over the joints/ cracks in the concrete should have a DFT of at least 1 mm.</li> </ul>
<b>Cautions</b>	<ul style="list-style-type: none"> <li>The product is not suitable for metal substrates.</li> <li>To ensure that colours on a project are consistent check that batch numbers correspond.</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 Safety Data Sheet for complete information.</li> </ul>

### **DISCLAIMER:**

The recommendations contained herein are given in all 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.

**NB:** 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.

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

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