



# RAINBOW

## RAINBOSHIELD 831

High Solids Amine Cured Epoxy

PRODUCT NUMBER	RAINBOSHIELD 831																		
TYPE	Two component reinforced high solids polyamine adduct cured pure epoxy coating.																		
CHARACTERISTICS	<ol style="list-style-type: none"><li>1. Used as primer for the new building system or the maintenance system, including outer hull, weather part, cargo hold, tanks and other areas of ship.</li><li>2. Good low temperature curing.</li><li>3. Easy to clean.</li><li>4. Short curing periods.</li><li>5. Tank coating with good chemical resistance against a wide range of chemicals.</li></ol>																		
GLOSS	Gloss																		
COLORS	Grey, light green																		
PRODUCT WEIGHT	Above 1.4 Kg/L																		
VOC	Max. 248 g/L																		
DRYING TIME	Set-to-touch 2 hrs (25°C)																		
OPTIMUM FILM THICKNESS	Wet 160 ~ 256μ (Micron) Dry 125 ~ 200μ (Micron)																		
VOLUME SOLID	78±2%																		
THEORETICAL COVERAGE	23.6 m <sup>2</sup> /Gal 6.24 m <sup>2</sup> /L @ 125μ																		
OVERCOATING TABLE	<p>EPOXY system</p> <table border="1"><thead><tr><th>Substrate temp.</th><th>5 °C</th><th>10 °C</th><th>20 °C</th><th>30 °C</th><th>40 °C</th></tr></thead><tbody><tr><td>Min.</td><td>32 hours</td><td>24 hours</td><td>8 hours</td><td>4 hours</td><td>3 hours</td></tr><tr><td>Max.</td><td>28 days</td><td>28 days</td><td>28 days</td><td>14 days</td><td>7 days</td></tr></tbody></table>	Substrate temp.	5 °C	10 °C	20 °C	30 °C	40 °C	Min.	32 hours	24 hours	8 hours	4 hours	3 hours	Max.	28 days	28 days	28 days	14 days	7 days
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MIXING RATIO	Base : Hardener = 15 : 5 (by volume)																		
POT LIFE	1 hour (25°C)																		
THINNER	No.1005 Epoxy Thinner (SP-12)																		
THINNER RATE	The mixing temperature for the base and hardener should be performed at above 15°C. Or else thinner should be added in order to achieve application viscosity, too much thinner will result in sagging. Well mix the base and hardener before any thinner is added. 0~5% (by bush and roller) 0~10% (Airless)																		
RECOMMENDED TOPCOAT	Epoxy · Polyurethane · Acrylic · Oil base · Chlorinated Rubber Paint																		
SHELF LIFE	Minimum one year under normal storage condition																		
APPLICATION METHOD	Airless spray, Bush and Roller																		
NOTE	<ol style="list-style-type: none"><li>1. Mix base and hardener according to the mixing ratio and stir thoroughly.</li><li>2. Adhered water, grease and dust on substrate must be thoroughly clean.</li><li>3. Steel; surface blast cleaned to ISO-Sa2½, roughness 30μ and above · or water-jet to VIS WJ 2/3 ·</li><li>4. Approved shop primer; sweep blasted or power tool cleaned to ISO SS St3 ·</li><li>5. Substrate temperature should be 3°C above dew point, rainy day and relative humidity during application and curing should be below 85%, or job is to be stopped.</li><li>6. Whilst application in the confine space, adequate ventilation must be maintenance.</li></ol>																		

EPDM3030831X V1.2

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