



# Technical Data Sheet: Neuthane EH 85

MDI - hybrid PPG Polyurea

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## Neuthane EH 85 - MDI - Hybrid PPG Polyurea System

Properties			Processing			Special Considerations		
<p>This series is a high performance MDI – PPG System Polyurea system used for Spray Applications.</p> <p>They offer:</p> <ul style="list-style-type: none"> <li>• High abrasion and and wear resistance</li> <li>• Rapid reactivity (seconds)</li> <li>• Continuous, Waterproof film</li> <li>• High resistance to corrosion and chemicals</li> <li>• Vertical and horizontal applications</li> <li>• No risk to the Environment</li> </ul> <p><b>Typical Applications</b></p> <ul style="list-style-type: none"> <li>• Tank coatings and linings</li> <li>• Pipe / Pipeline coatings</li> <li>• Flooring and parking decks</li> <li>• Bridge deck Coating</li> <li>• Water Parks and Playgrounds</li> <li>• Fuel storage and containment</li> <li>• Acquarium Lining</li> <li>• Roof Coating</li> <li>• Joint Fill / Caulk</li> <li>• Manhole and sewer linings</li> <li>• Waste water treatment linings</li> </ul>			<p>Processing can be by hand or by dispensing machine.</p> <p><b>Machine Processing</b></p> <ul style="list-style-type: none"> <li>• Process ISO at 75°C</li> <li>• Process Poly at 75°C</li> <li>• Hose at 80 °C</li> <li>• ISO Pressure at 2000 - 2200 psi</li> <li>• Poly Pressure at 2000 - 2200 psi</li> </ul>			<p><b>Processing</b></p> <ul style="list-style-type: none"> <li>• Pails or Drums must be melted and rolled so material is fully mixed before use</li> <li>• Avoid moisture contamination of all materials</li> <li>• Part used containers should be flushed with dry nitrogen and resealed immediately after use</li> </ul> <p><b>Storage</b></p> <p>Store for 12 months in the original packing. Keep the original drums tightly closed to prevent contamination by humidity in a clean, dry environment at temperature between 10 and 30 °C. Add dry nitrogen to already opened drums</p>		
<b>COST</b>	<b>PROCESSING</b>	<b>ABRASION</b>	<b>DYNAMIC</b>	<b>RESILIENCE</b>	<b>SOLVENT</b>	<b>HUMID/WET</b>	<b>TEMPERATURE</b>	<b>UV STABILITY</b>

Key

Excellent / Good

Good / Average

Average / Poor

## Neuthane EH 85 - MDI - Hybrid PPG Polyurea System

Neuthane		80
Mix Ratio NEH 85 ISO	by weight	100 Grammes
Mix Ratio NEH 85 Poly	by weight	100 Grammes
Viscosity @ 75°C - NEH 85 ISO	cps	135
Viscosity @ 55°C - NEH 85 Poly	cps	40
Gel Time	Seconds	5 - 7
Recommended Cure Temperature / Time	°C / hrs	Ambient / 8

<b>Hardness</b>	<b>DIN 2240-91</b>	Shore A	85
	<b>DIN 2240-91</b>	Shore D	
100% Modulus	BS 903 Pt A2 - ISO 37	lb/in <sup>2</sup> (Mpa)	861 (5.9)
300 Modulus	BS 903 Pt A2 - ISO 37	lb/in <sup>2</sup> (Mpa)	1870 (12.9)
Tensile Strength	BS 903 Pt A2 - ISO 37	lb/in <sup>2</sup> (Mpa)	2310 (16)
Elongation at Break	BS 903 Pt A2 - ISO 37	%	350
Tear Strength	BS 903 Pt A3 - ISO 34-1	lbf/in (kN/m)	300 (52.5)
Abrasion loss	DIN 53516	mm <sup>3</sup>	< 50
Resilience	ASTM D 2632-92	%	-
Specific Gravity		g/cm <sup>3</sup>	-

Information contained in the data above is, to the best of our knowledge, true and accurate. Since conditions of use are beyond our control, no warranty is given or implied in respect of any recommendations or suggestions made by ourselves, nor is freedom from patent infringement inferred.



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