



## GEOTHANE 5020

### PRODUCT INFORMATION

<b>Description</b>	Elastomeric 100% solids hot spray applied coating system designed to produce a seamless lining membrane for primary or secondary containment.	<b>Features</b>	<ul style="list-style-type: none"> <li>• Cost effective for use onto geotextile in place of concrete</li> <li>• Fast cure for increased productivity</li> <li>• Zero VOC's</li> </ul>				
<b>Recommended Applications</b>	Ideal for use onto concrete, steel or bare earth (using geotextile backing) to contain spills or leaks of various chemicals.	<b>Package Size</b>	<table border="1"> <tr> <td><b>Volume</b></td> <td>10 &amp; 110 US Gallons 37.8 &amp; 415.8 Litres</td> </tr> <tr> <td><b>Weight</b></td> <td>42 &amp; 465 Kg</td> </tr> </table>	<b>Volume</b>	10 & 110 US Gallons 37.8 & 415.8 Litres	<b>Weight</b>	42 & 465 Kg
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### PRODUCT DATA

<b>Physical Properties</b>	<b>Colour</b>	A Component is Amber <b>ISOCYANATE</b>
		B Component is Black or Tan <b>POLYOL</b>
		Mixed product is Black or Tan
	<b>Mix Ratio by Volume A : B</b>	1 : 1
	<b>Mix Ratio by Weight A : B</b>	1 : 0.85
	<b>% Solids by Volume</b>	100
	<b>Flash Point, °C</b>	93
	<b>Gel Time at 60°C/ seconds</b>	15 - 25
<b>Wet film build, mm</b>	~0.75-3.50mm in one or two coats	

<b>Performance Properties</b>	<b>Tensile Strength, MPa (ASTM D 412)</b>	5 - 8
	<b>Elongation, % (ASTM D 412)</b>	180 - 200
	<b>Temperature resistance, °C (ASTM D 573 dry)</b>	Maximum 65
	<b>Theoretical Coverage</b>	1.0 L/m <sup>2</sup> /mm dft
	<b>Hardness, Shore D (ASTM D2240)</b>	75 – 80
	<b>Tear Strength KN / m (ASTM D 624)</b>	53
	<b>Abrasion Resistance, mg loss (ASTM 4060 CS 17, 1000g, 1000 cycles)</b>	8
	<b>Permeability / metric perms (ASTM E 96)</b>	0.075



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### APPLICATION INFORMATION

<b>Surface Preparation</b>	<p>Proper surface preparation is essential to achieve the full potential of the system. Consult the relevant specification guideline for the application / substrate in question.</p> <p>Product should only be applied in conditions where the Temperature is 3°C above the dew point and Relative Humidity is &lt;85%</p>
<b>Mixing</b>	<p>The product is hot spray applied and mixing is an essential part of the operation occurring within the gun. (See Application section for further info)</p>
<b>Application</b>	<p>Prior to commencing use of the product ensure that the two components are stored at temperature no lower than 20°C, a temperature of around 25°C is preferable and can be achieved by storage in a heated room or the use of electrical jacket heaters. The B component should be thoroughly power mixed prior to use.</p> <p>Suitable dispensing equipment is required in order to apply this product. Equipment must be capable of, delivering product to the gun at ~ 120-170 bar, with each component accurately metered in a 1 : 1 ratio by volume. The output of the machine should be capable of matching the highest output of the gun being used. Accurate temperature control of the two components should be possible, typically up to 70°C, with this heating being incorporated into the hose up to or as close as possible to the gun.</p> <p>The spray gun should ideally use high pressure impingement to achieve satisfactory mixing of the components immediately on triggering. Some static mixer modified guns are also suitable, consult Irathane Futura to discuss suitable systems.</p> <p>To achieve an even finish during application the gun should be held at right angles to the substrate at a distance of 30-70cm, this can depend on the output volume and pressure.</p> <p>Review the appropriate Specification Guideline for detailed application instruction.</p>
<b>Cure</b>	<p>Guideline cure times can be found below.</p>

	Substrate Temperature		
	10°C	20°C	30°C
Surface dry @ 1.0mm / Minutes	20	10	5
Cure 100% @ 1.0mm / Days	4	3	2
Recoat Time minimum / Minutes	30	15	102
Maximum without reactivation / Hours	24	12	6
Abrade, Dedust / Hours	>60	>50	>30

<b>Clean Up</b>	<p>All equipment should be thoroughly cleaned directly after use using Mesamoll or suitable alternative. Spray guns should be cleaned using a proprietary cleaner as recommended by the manufacturer.</p>
<b>Shelf life &amp; Storage</b>	<p>6 months from date of shipment when stored at room temperature (~22°C) in original unopened containers in a dry environment.</p>
<b>Precautions</b>	<p>For complete safety and handling information, please refer to Material Safety Data Sheets prior to using this product.</p>
<b>Warranty</b>	<p>Irathane Futura will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control we can accept no liability for the results obtained.</p>

