

## Metal Repair Products Testing and Product Characteristics

	<b>101</b>	<b>102</b>	<b>104</b>	<b>106</b>	<b>107</b>
<b>Compressive strength</b> <i>Tested to ASTM D 695</i>	1075kg/ cm <sup>2</sup> (15,300psi)	1075kg/ cm <sup>2</sup> (15,300psi)	185kg/ cm <sup>2</sup> (2630psi)	185kg/ cm <sup>2</sup> (2630psi)	839kg/ cm <sup>2</sup> (11,900psi)
<b>Corrosion Resistance</b> <i>Tested to ASTM B117</i>	5000 hours	5000 hours	5000 hours	5000 hours	5000 hours
<b>Flexural Strength</b> <i>Tested to ASTM D790</i>	703kg/cm <sup>2</sup> (10,000psi)	703kg/cm <sup>2</sup> (10,000psi)	240kg/cm <sup>2</sup> (3400psi)	240kg/cm <sup>2</sup> (3400psi)	585kg/cm <sup>2</sup> (8300psi)
<b>Hardness</b> <i>Rockwell R to ASTM D785</i>	100	100	85	85	100
<b>Slump Resistance</b>	25mm	3mm	3mm	20mm	20mm
<b>Tensile Shear Adhesion</b> <i>ed to ASTM D1002</i>	<i>Test-</i> 185kg/cm <sup>2</sup> (2630psi)	185kg/cm <sup>2</sup> (2630psi)	185kg/cm <sup>2</sup> (2630psi)	185kg/cm <sup>2</sup> (2630psi)	180kg/cm <sup>2</sup> (2550 psi)
<b>Volume Capacity</b> <i>cc per kg</i>	406	440	555	555	388
<b>Base density</b> <i>gm per cm<sup>3</sup></i>	2.70	2.70	1.80	1.80	2.70
<b>Activator density</b> <i>gm per cm<sup>3</sup></i>	1.70	1.00	1.80	1.80	2.40
<b>Mixed product density</b> <i>gm per cm<sup>3</sup></i>	2.46	2.50	1.80	1.80	2.58
<b>Dry heat resistance</b> (°C)	<b>200</b>	<b>200</b>	<b>130</b>	<b>130</b>	<b>180</b>
<b>Intermittent wet heat resistance</b> (°C)	120	120	80	80	90
<b>Immersion temperature resistance</b> (°C)	<b>70</b>	<b>70</b>	<b>60</b>	<b>60</b>	<b>60</b>
<b>Mixing ratio by volume</b>	3:1	3:1	1:1	1:1	3:2
<b>Mixing ratio by weight</b>	5:1	8:1	1:1	1:1	3:2

	<b>10 °C</b>			<b>20 °C</b>			<b>30 °C</b>			<b>40 °C</b>		
	Pot life	Machine	Hard dry	Pot life	Machine	Hard dry	Pot life	Machine	Hard dry	Pot life	Machine	Hard dry
<b>101</b>	60mins	4hrs	16hrs	30mins	2hrs	8hrs	15mins	1hrs	4hrs	7.5mins	30mins	2hrs
<b>102</b>	60mins	3hrs	16hrs	30mins	90mins	8hrs	15mins	45mins	4hrs	7.5mins	22.5mins	2hrs
<b>104</b>	10mins	60mins	4hrs	5mins	30mins	2hrs	2.5mins	15mins	1hrs	75secs	7.5mins	30mins
<b>106</b>	10mins	60mins	4hrs	5mins	30mins	2hrs	2.5mins	15mins	1hrs	75secs	7.5mins	30mins
<b>107</b>	2hrs	24hrs	36hrs	60mins	12hrs	18hrs	30mins	6hrs	9hrs	15mins	3hrs	4.5hrs