

Pipe Repair Products Testing and Product Characteristics

	101	104	106	107	108	301	302
Compressive strength <i>Tested to ASTM D 695</i>	1075kg/ cm ² (15,300psi)	185kg/ cm ² (2630psi)	185kg/ cm ² (2630psi)	839kg/ cm ² (11,900psi)	n/a	1034kg/ cm ² (14,700psi)	735kg/ cm ² (10,450psi)
Corrosion Resistance <i>Tested to ASTM B117</i>	5000 hours	5000 hours	5000 hours	5000 hours	n/a	5000 hours	5000 hours
Flexural Strength <i>Tested to ASTM D790</i>	703kg/cm ² (10,000psi)	240kg/cm ² (3400psi)	240kg/cm ² (3400psi)	585kg/cm ² (8300psi)	329kg/cm ² (4640psi)	912kg/cm ² (13,000psi)	298kg/cm ² (4250psi)
Hardness <i>Rockwell R to ASTM D785</i>	100	85	85	100	82	85	100
Slump Resistance	25mm	3mm	20mm	20mm	n/a	3mm	20mm
Tensile Shear Adhesion <i>Tested to ASTM D1002</i>	185kg/cm ² (2630psi)	185kg/cm ² (2630psi)	185kg/cm ² (2630psi)	180kg/cm ² (2550 psi)	193kg/cm ² (2740psi)	148kg/cm ² (2100psi)	129kg/cm ² (1830psi)
Volume Capacity <i>cc per kg</i>	406	555	555	388	n/a	869	625
Base density <i>gm per cm³</i>	2.70	1.80	1.80	2.70	n/a	1.15	1.60
Activator density <i>gm per cm³</i>	1.70	1.80	1.80	2.40	n/a	1.15	1.60
Mixed product density <i>gm per cm³</i>	2.46	1.80	1.80	2.58	n/a	1.15	1.60
Dry heat resistance (°C)	200	130	130	180	270	150	150
Intermittent wet heat resistance (°C)	120	80	80	90	270	120	120
Immersion temperature resistance (°C)	70	60	60	60	n/a	70	70
Mixing ratio by volume	3:1	1:1	1:1	3:2	n/a	2:1	1:1
Mixing ratio by weight	5:1	1:1	1:1	3:2	n/a	2:1	1:1

	10°C			20°C			30°C			40°C		
	Pot life	Machine	Hard dry	Pot life	Machine	Hard dry	Pot life	Machine	Hard dry	Pot life	Machine	Hard dry
101	60mins	4hrs	16hrs	30mins	2hrs	8hrs	15mins	1hrs	4hrs	7.5mins	30mins	2hrs
103	10mins	1hrs	1hrs	5mins	30mins	30mins	2.5mins	15mins	15mins	75secs	7.5mins	7.5mins
104	10mins	60mins	4hrs	5mins	30mins	2hrs	2.5mins	15mins	1hrs	75secs	7.5mins	30mins
106	10mins	60mins	4hrs	5mins	30mins	2hrs	2.5mins	15mins	1hrs	75secs	7.5mins	30mins
107	2hrs	24hrs	36hrs	60mins	12hrs	18hrs	30mins	6hrs	9hrs	15mins	3hrs	4.5hrs
108	6mins	N/A	1hrs	3mins	N/A	30mins	90secs	N/A	15mins	45secs	N/A	7.5mins
301	50mins	N/A	48hrs	25mins	N/A	24hrs	12.5min	N/A	12hrs	6mins	N/A	6hrs
302	1hrs	4hrs	48hrs	30mins	2hrs	24hrs	15mins	1hrs	12hrs	7.5mins	30mins	6hrs