

MP 75-90

MONO-COMPONENT EPOXY SYSTEM

- Co-curable with prepreg and SPRINT™ systems at 70°C and above
- Ideal for core splicing and gap filling
- Convenient 300ml cartridge format

INTRODUCTION

MP75-90 is a single component epoxy system designed to co-cure at moderate elevated temperatures with Gurit epoxy prepregs and SPRINTs™. It is a thixotropic paste ideal for any gap filling or core splicing operations during the layup of prepreg or SPRINT™. The colour is dark grey to tone in with carbon prepregs



INSTRUCTIONS FOR USE

MIXING AND HANDLING

MP75-90 is a pre-catalysed mono-component system and therefore does not need to be mixed with a hardener component. The resin requires a temperature of 70°C to cure but some polymerisation can occur at room temperature. This will thicken the product and affect its handling properties, to ensure safe use the product should not be left for extended period at room temperatures or any time above 40°C.

APPLICATION

The adhering surfaces should be dry, free of grease, oil, or mould release or similar material which would prevent adhesion of the system. The product can be applied directly from cartridge with a standard mastic gun and spread if necessary with a pallet knife or spreader.

MP75-90 is sag resistant up to 25mm in thickness on a vertical surface and retains thixotropy even at elevated temperatures. MP75-90 can be used to fill gaps or tight radius corners in prepreg or SPRINT components. It is also commonly used as a core sheet edge splicing adhesive.

PRODUCT INFORMATION

AVAILABILITY

MP75-90 is available in 300ml cartridges.

TRANSPORT & STORAGE

When stored sealed & out of direct sunlight.

STORAGE TEMP		UNIT	VALUE
-18°C	0°F	months	24
+18-22°C	64-72°F	weeks	2

Product should be stored in a freezer when not in use to maximise useable life, since the low temperature reduces the reaction of resin and catalyst to almost zero. At -18°C (0°F), some reaction may still occur.

HEALTH AND SAFETY

Please refer to product SDS (Safety Data Sheets) for up to date information specific to this product.

CURING INFORMATION

PROPERTY	70°C (158°F)	80°C (176°F)	120°C (248°F)	TEST STANDARD
Processing Method	Vacuum Bag			
Typical Ramp Rate	0.3°C (0.5°F) to 2°C per minute	0.3°C (0.5°F) to 2°C per minute	0.3°C (0.5°F) to 2°C per minute	
Cure Dwell Time	12 hours	6 hours	50 mins	
Cure Pressure				
Dry Tg _i (DMA)	73.4	88.0	115.7	ASTM D7028

MP75-90 has been designed to co-cure with SE75 and ST90 resin systems and follows the same curing time and temperature

CURED PROPERTIES

MECHANICAL PROPERTIES

PROPERTY	UNIT	12 HOURS AT 70°C (158°F)	6HOURS 80°C (176°F)	1 HOUR AT 120°C (248°F)	TEST STANDARD
Average Cured Density	g/cm³	0.68	0.68	0.66	Archimedes principle
Tensile Strength	MPa	12.4	14.0	16.9	ISO527-2
Tensile Modulus	GPa	0.9	1.0	0.8	ISO527-2
Flexural Strength	MPa	20.6	24.8	27.4	ISO78
Flexural Modulus	GPa	0.9	1.1	1.0	ISO78
Charpy Impact	kN/m²	0.49	0.50	0.78	ASTM E23

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TECHNICAL CONTACT INFORMATION

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