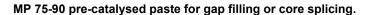


# Gurit

# MP 75-90 MONO-COMPONENT EPOXY SYSTEM



MP 75-90 is a single component epoxy system designed to co-cure at moderate elevated temperatures with Gurit epoxy prepregs and SPRINT $^{\text{TM}}$ . It is a thixotropic paste ideal for any gap filling or core splicing operations during the layup of prepreg or SPRINT. The color is dark grey to tone in with carbon prepregs.



- Co-curable with Gurit's SE 75 and ST 90 prepreg systems curing at 70°C and above
- Ideal for core splicing and gap filling
- Convenient 300ml cartridge format

PDS-MP75-90-01-0224

#### **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 minimum temperature of 70°C to cure.

At room temperature, some polymerisation can occur which will thicken the product and affect its handling properties, therefore 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 only available in 300ml cartridges

#### TRANSPORT AND STORAGE

STORAGE TEMPERATU	URE	UNIT	VALUE	
-18°C	0°F	Months	24	
+18-20°C	+64-68°F	Weeks	2	

To maximise the de-frosted shelf life of the material it is beneficial to maintain a cool working environment. When not in use the product should be stored frozen at -18 $^{\circ}$ C (0 $^{\circ}$ F)

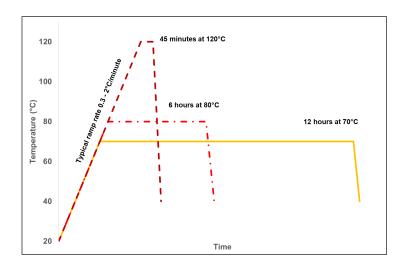
#### **CURING INFORMATION**

#### TYPICAL CURE TIME AND TEMPERATURES

For full cure of MP75-90 to be achieved, one of the following cure cycles is recommended.

PROPERTY		OVEN/VACUUM BAG	
Typical ramp rate	0.3 – 2°C/minute	0.3 – 2°C/minute	0.3 – 2°C/minute
Cure temperature	70°C (176°F)	80°C (194°F)	120°C (212°F)
Cure dwell time	12 hours	6 hours	45 minutes
Tg <sub>1</sub> (DMA)	73.5	88	115

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



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# **CURED PROPERTIES**

# **CURED RESIN PROPERTIES**

Resin cast oven cured, mean values.

PROPERTY	SYMBOL	UNITS	12 HOURS AT 70°C (158°F)	6 HOURS 80°C (176°F)	1 HOUR 120°C (248°F)	TEST METHOD
Average cured density	t <sub>ply</sub>	g/cm³	0.68	0.68	0.66	Archimedes principle
Tensile strength	στ	MPa	12.4	14.0	16.9	ISO527-2
Tensile modulus	Ετ	GPa	0.9	1.0	0.8	ISO527-2
Flexural strength	$\sigma_{F}$	MPa	20.6	24.8	27.4	ISO178
Flexural modulus	E <sub>F</sub>	GPa	2.3	2.15	2.12	ISO 178
Charpy impact	-	kN/m²	77	92	93	

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#### **HEALTH AND SAFETY**

The following points must be considered:

- 1. Skin contact must be avoided by wearing protective gloves. Gurit recommends the use of disposable nitrile gloves for most applications. The use of barrier creams is not recommended, but to preserve skin condition a moisturizing cream should be used after washing.
- 2. Protective clothing should be worn when mixing, laminating or sanding. Contaminated work clothes should be thoroughly cleaned before reuse
- 3. Eye protection should be worn if there is a risk of resin, hardener, solvent or dust entering the eyes. If this occurs flush the eye with water for 15 minutes, holding the eyelid open, and seek medical attention.
- 4. Ensure adequate ventilation in work areas. Respiratory protection should be worn if there is insufficient ventilation. Solvent vapors should not be inhaled as they can cause dizziness, headaches, loss of consciousness and can have long term health effects.
- 5. If the skin becomes contaminated, then the area must be immediately cleansed. The use of resin-removing cleansers is recommended. To finish, wash with soap and warm water. The use of solvents on the skin to remove resins etc must be avoided.

Washing should be part of routine practice:

- before eating or drinking
- before smoking & vaping
- before using the lavatory
- after finishing work

6. The inhalation of sanding dust should be avoided and if it settles on the skin then it should be washed off. After more extensive sanding operations a shower/bath and hair wash is advised.

Gurit produces a separate full Safety Data Sheet for all hazardous products. Please ensure that you have the correct SDS to hand for the materials you are using before commencing work.

#### **NOTICE**

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Gurit is continuously reviewing and updating literature. Please ensure that you have the current version by contacting your sales contact and quoting the revision number in the bottom left-hand corner of this page.

#### **CONTACT INFORMATION**

Please see local contact information at www.gurit.com

## 24-HOUR CHEMICAL EMERGENCY NUMBER

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