

SP 11100

70°C MONOCOMPONENT PASTE

INTRODUCTION

This product is a pre-catalysed mono-component paste developed specifically for core splicing activities when using 70°C curing products such as SE70 prepreg or ST 70 SPRINT™.

INSTRUCTIONS FOR USE

The product is stored frozen and should be allowed to reach room/workshop temperature before the container is opened and the product used.

The material is pre-catalysed therefore requires no mixing and can be used as soon as defrosted. The adhering surfaces should be dry free of grease, oil, mould release or similar materials. The product is available in cartridges that fit a standard mastic gun or can be applied by pallet knife or suitable dispensing/injection system. The polymerisation reaction is exothermic but does not generate runaway exotherm meaning that thickness of 20mm does not present a problem. SP 11100 is also sag resistant with bondline thickness of 20 mm possible.

PROPERTIES

Component properties	
Property	Paste
Appearance - Colour	Dark Grey
Appearance - Form	Thixotropic Paste
Viscosity at 25°C(Poise)	550
Sag Resistance (mm)	20
Density (g/cc)	0.74 –0.78
Hazard Definition	Xi

Mechanical properties		
Test	Result	Cure
Bond Strength to Nomex Honeycomb	TBA	16 hrs 70°C
Bond Strength to Gurit® Corecell™ P500 (N/mm ²)	2.13	16 hrs 70°C
Bond Strength to Gurit® Corecell™ T800 (N/mm ²)	1.93	16 hrs 70°C

CURING

The product is designed to co-cure with Gurit's 70°C systems. The minimum cure temperature is 70°C and the time at this temperature 16hrs.

A typical cure schedule co-curing with ST 70 or SE 70 would be; 1°C/minute to 55°C 1 hr dwell, 0.5°C /minute to 70 °C and cure for 16hrs.

Although the product has a relatively low reactivity, curing large volumes may create unacceptably high exotherm temperatures. Contact Gurit Technical Services for advice.

Cured System properties		
Property	Result	Cure
Cured density (g/cc)	0.75	16 hrs 70°C
Linear shrinkage(%)	TBA	16 hrs 70°C
DSC Tg2 (°C)	70	16 hrs 70°C
DMA Tg1 (°C)	74	16 hrs 70°C

HEALTH AND SAFETY

The following points must be considered:

1. Skin contact must be avoided by wearing 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 moisturising cream should be used after washing.
2. Overalls or other protective clothing should be worn when laminating or sanding. Contaminated work clothes should be thoroughly cleaned before re-use.
3. Eye-protection should be worn. If contamination of the eyes occurs then flush the eye with water for 15 minutes, holding the eyelid open, and seek medical attention.
4. 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
- before using the lavatory
- after finishing work

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

Gurit produces a separate full Material Safety Data Sheet (MSDS) for all hazardous products. Please ensure that you have the correct MSDS to hand for the materials you are using before commencing work. A more detailed guide for the safe use of Gurit resin systems is also available and can be found on our website at www.gurit.com

Transport & Storage

The product should be kept in securely closed containers during transport and storage. Any accidental spills should be soaked up with sand, sawdust, cotton waste or similar absorbent materials. The area should then be washed clean (refer to appropriate Material Safety Data Sheet).

The product should be stored frozen (-18°C) Which will give a shelf life of 12 months. If stored at room temperature the product will have a useable life of 20 days.

Notice

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