INTRODUCTION

Gurit’s long history supplying prepregs to the wind energy, transportation and marine industries has allowed Gurit to lead the way by introducing the next generation of prepregs, specifically designed to make component manufacture faster, easier and cheaper.

Pre-impregnated materials (prepregs) are reinforcement fibres or fabrics into which a pre-catalysed resin system has been impregnated by a machine. The resin systems in these materials react only very slowly at room temperature, allowing a long shelf life and are cured by heating them to the prescribed elevated temperature.

Gurit’s Prepreg offering is grouped into:

LOW TEMPERATURE PREPREGS
Low temperature curing prepregs for tooling considerations such as temperature cycling and energy saving.

PERFORMANCE / HIGH PERFORMANCE PREPREGS
Structural prepreg technology for faster, easier and cheaper large-scale composite components.

INDUSTRIAL PREPREGS
Structural Industrial prepreg technology for faster, easier and cheaper large-scale composite components.

PREPREG PRODUCTS NAMING CONVENTION
Gurit’s comprehensive prepreg offering has six main product formats aimed at out of autoclave processing:

¬ Epoxy Prepreg (SE or WE)
¬ SPRINT™ (ST or WT) Film Infusion Technology
¬ SparPreg™ UD Glass & Carbon Prepreg Solution
¬ Surfacing Films (SF)
¬ Film Adhesives (SA)
¬ Mono-component Pastes (SP)
<table>
<thead>
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<th>FORMAT</th>
<th>SYSTEM</th>
<th>MAIN FEATURES</th>
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<th>FASTEST CURE</th>
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<td>ST 70</td>
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<td>SPRINT</td>
<td>WT 93</td>
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</tbody>
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* 3rd party certifications are format specific. Please contact Gurit Technical Support for further information.
** Will require post cure to maximise thermal properties, please refer to TDS.
ST 70 is manufactured into a SPRINT™ structure with E-glass and Carbon fibres, which are manufactured into biax or woven materials. ST 70 is designed for vacuum bag processing and offers excellent mechanical performance on glass fibre reinforcements. Currently SE 70 is widely used in sandwich structures with honeycomb, foam and balsa cores, primarily with the toughened SA 70 Adhesive Film.

SE 70 is a hot melt, Diuron free epoxy SPRINT™ ideally suited to the manufacture of thick sections. It can be cured at temperatures as low as 70°C, but can also be used for the rapid manufacture of components through its 25-minute cure at 120°C. All of this can be achieved as70°C cure temperature
Low exothermic properties
Available with a range of reinforcements
Low exothermic properties

ST 70 is part of the range of SPRINT™ products. This unique product range provides technically and commercially competitive engineering materials, ideal for use either solely, or in conjunction with other products from within the product range along with other Gurit products.

SE 84LV is an exceptionally versatile hot-melt, epoxy prepreg. It can be cured at temperatures as low as 80°C, or for faster moulding of components at 120°C. This is achieved with an extremely good out-life of up to 8 weeks at 18-22°C. SE 84LV is a toughened system, and offers excellent mechanical properties on a wide variety of reinforcing fabrics and fibres and is commonly used in vacuum bagging, press-moulding, autoclave and other pressure moulding processes. SE 84LV is a low viscosity system used with heavy fibre weights where low-flow processing conditions (vacuum bag pressure and minimum cure temperature), are likely to be used. With its high compressive strength it is widely used in large heavily loaded components, such as yacht hulls, and spars.

SE 84LV has been selected for use by various America’s Cup syndicates and boats racing in the Volvo Ocean Race. SE 84LV is widely used. With its high compressive strength it is widely used in large heavily loaded components, such as yacht hulls, and spars.

ST 94 is a tough hot-melt, epoxy resin that offers an extremely good balance of mechanical properties. It has been formulated to give an ideal tack level at workshop temperature. It is ideal for structural components where improved impact performance and resistance to resin microcracking is desired.

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TYPICAL APPLICATIONS
SE 84LV has been selected for use by various America’s Cup syndicates and boats racing in the Volvo Ocean Race. SE 84LV is widely used in sandwich structures with honeycomb, foam and balsa cores, primarily with the toughened SA 80 Adhesive Film.

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ST 110
Car Body Panel System SPRINT™ Resin

- Drape and thickness optimised for excellent handling
- Ideal for complex or vertical mouldings
- Excellent balance of mechanical performance and toughness
- Suitable for autoclave and vacuum bag processing

**INTRODUCTION**
ST 110 is used alongside a suitable surfacing film (SF 80, SF 95VH, SF 80FROBL or SF 96) and SY 110 Syntactic Core to build up a CBS panel. The woven carbon and glass reinforcements can be used to lay up various panel combinations to suit the required stiffness and weight targets needed.

**TYPICAL APPLICATIONS**
Structural ST 110 is used to form a multi layered material referred to as CBS Car Body SPRINT™ for body and closure panels for automotive applications.

SC 110(T2)
Cosmetic Carbon Prepreg

- Ultra high clarity – ideal for cosmetic components with no white-wash or spots
- High-strength prepreg system
- Versatile process window with autoclave and press moulding
- Curable at temperatures as low as 80°C
- Fast 45 min cure at 120°C
- Rapid 20 minute cure at 150°C in a press
- Excellent tack allowing easy in-mould repositioning

**INTRODUCTION**
SC 110(T2) is ideally suited to achieve visual surface quality. This cosmetic grade prepreg utilizes a high clarity, versatile, hot-melt epoxy resin formulation. This specifically developed, unique formulation produces truly white-wash-free parts resulting in increased production output and scrap cost savings of up to 20%. SC 110(T2) can be cured at temperatures as low as 80°C or even faster cures are achievable using press moulding technologies at temperatures up to 150°C. DUV SE Accelerated Weathering Test has revealed that Gurit SC 110(T2) carbon prepreg offers superior weathering performance compared with the current market range.

**TYPICAL APPLICATIONS**
Gurit’s SC 110(T2) is suitable for automotive applications where a high clarity finish is required.
INDUSTRIAL PREPREGS
High volume component manufacture. KTL capable.

TYPICAL APPLICATIONS
- Net shaped parts to be manufactured. The products' characteristics facilitate simple preforming prior to moulding and the ability to fill edged detail during moulding, allowing times of 5 minutes.

Smartcure™ has been specifically developed for high volume press moulding applications and enables users to perform cycle times of 5 minutes.

Smartcure™ Prepreg
- 5 Minute Cure Time at 150°C
- Hot-in, Hot-out Press Processing
- Net Shape Components
- Good Surface Finish
- Developed for Automotive Component Production
- Out-of-autoclave curing
- Developed for Automotive Component Production
- 5 Minute Cure Time at 190°C

SparPreg™
- UD prepreg ideal for use in thick sections
- Available with glass or carbon fibre
- Excellent mechanical properties
- Out-of-autoclave curing
- Excellent handling & processing properties during lamination
- Recommended cure between 85°C / 185°F and 120°C / 250°F

WT 93
- Low tack epoxy SPRINT™
- Recommended cure between 90°C / 200°F and 120°C / 250°F
- High flow epoxy resin matrix
- Good out-life at 21°C / 70°F
- Cure from 85°C - 120°C / 185°F - 250°F

WE 91-1 / WE 91-2
- High flow epoxy prepreg
- High (WE 91-1) and medium (WE 91-2) tack prepreg
- Long ambient shelf-life - up to 2 months

INTRODUCTION
Gurit’s WE 91 prepreg product range comprises of two tack variants; WE 91-1 high tack and WE 91-2 medium tack prepregs. WE 91 is a high flow epoxy prepreg ideally suited to structural composite component manufacture. It can be cured at temperatures as low as 85°C / 185°F, but can also be used for the rapid manufacture of components through its 45-minute cure at 120°C / 250°F. All of this can be achieved together with an out-life of 60 days at 21°C / 70°F. WE 91 is designed for vacuum bag processing and offers excellent mechanical performance on glass and carbon fibre reinforcements.

TYPICAL APPLICATIONS
Technically and commercially competitive engineering materials.

INTRODUCTION
Gurit’s WT 93 prepreg product range comprises of two tack variants; WT 93 low tack and WT 93 medium tack prepregs. WT 93 is a high flow epoxy prepreg ideally suited to structural composite component manufacture. It can be cured at temperatures as low as 85°C / 185°F, but can also be used for the rapid manufacture of components through its 45-minute cure at 120°C / 250°F. All of this can be achieved together with an out-life of 21 days at 21°C / 70°F. WT 93 is designed for vacuum bag processing and offers excellent mechanical performance on glass and carbon fibre reinforcements.

TYPICAL APPLICATIONS
- UD prepreg ideal for use in thick sections
- Available with glass or carbon fibre
- Excellent mechanical properties
- Out-of-autoclave curing
- Excellent handling & processing properties during lamination
- Recommended cure between 85°C / 185°F and 120°C / 250°F

SparPreg™ was developed to benefit the lay-up of thick UD sections, such as wind turbine blade spars. The material can produce thick laminates of exceptional quality with low void content, without the need for an intermediary debulking process or additional dry fabric reinforcement to aid air removal. The net result enables blade manufacturers to eliminate production steps and redundant materials and increase capacity.

SparPreg™ has been specially formulated to achieve the outstanding in-cure and mechanical performance of the WE 91 prepreg and WT 93 SPRINT™ resin systems. SparPreg™ can be cured at temperatures as low as 85°C / 185°F, but can also be used for the rapid manufacture of components at 120°C / 250°F.

TYPICAL APPLICATIONS
SparPreg™ is an advanced UD prepreg, developed to enable the economic manufacture of unidirectional spar caps for more demanding blade designs, ideal for use in conjunction with other Gurit products.
# Gurit’s Range of Ancillary Products

## Monocomponents

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Main Features</th>
<th>Lowest Cure</th>
<th>Fastest Cure</th>
<th>Recommended Processing Method</th>
<th>Shelf Life</th>
<th>Typical Applications</th>
</tr>
</thead>
</table>
| SP 1100      | ~ Co-curable with prepreg systems  
               ~ Compatibility of handling and processing  
               ~ Ideal for core splicing and gap filling | 70°C 16h | N/A N/A | Autoclave  
                        Pressed  
                        Vacuum Bagging | 75°C 12h 20d | 0.75 | Core splicing for use with 70°C prepregs systems  
                                Low temperature |
| SP 4832      | ~ Co-curable with prepreg systems  
               ~ Compatibility of handling and processing  
               ~ Ideal for core splicing and gap filling | 80°C 12h | N/A N/A | Autoclave  
                        Pressed  
                        Vacuum Bagging | 85°C 24h 20d | 0.7 | Core splicing for use with 80°C prepregs systems  
                                Low density, elevated temperature |
| SP 9435      | ~ Co-curable with prepreg systems  
               ~ Compatibility of handling and processing  
               ~ Ideal for core splicing and gap filling | 85°C 12h | 120h 60m | Autoclave  
                        Pressed  
                        Vacuum Bagging | 95°C 12h 84d | 0.75 | Core splicing and to stop bridging of prepregs  
                                High temperature |

## Film Adhesives

<table>
<thead>
<tr>
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<th>Main Features</th>
<th>Lowest Cure</th>
<th>Fastest Cure</th>
<th>Recommended Processing Method</th>
<th>Shelf Life</th>
<th>Toughened</th>
<th>Typical Applications</th>
</tr>
</thead>
</table>
| SA 70        | ~ Consistent bond-line thickness and weight  
               ~ High strain to failure, high toughness  
               ~ Handling & no mixing convenience | 70°C 16h | 120h 30m | Autoclave | 110°C 24h 28d | Yes | Co-cure with 70°C prepregs for core and high strength adhesive bonding applications |
| SA 80        | ~ Consistent bond-line thickness and weight  
               ~ High strain to failure, high toughness  
               ~ Handling & no mixing convenience | 80°C 12h | 120h 60m | Autoclave | 100°C 24h 56d | Yes | Co-cure with 80°C prepregs for core and high strength adhesive bonding applications |

## Surfacing Films

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Main Features</th>
<th>Lowest Cure</th>
<th>Fastest Cure</th>
<th>Recommended Processing Method</th>
<th>Shelf Life</th>
<th>Toughened</th>
<th>Typical Applications</th>
</tr>
</thead>
</table>
| SF 70        | ~ Surface film to generate a resin rich surface  
               ~ Suitable for subsurface applications  
               ~ Available in different colours | 70°C 16h | 120h 25m | Autoclave | 90°C 24h 14d | Yes | Co-cure with 70°C prepregs for resin rich surface |
| SF 80        | ~ Surface film to generate a resin rich surface  
               ~ Suitable for subsurface applications  
               ~ Available in different colours | 80°C 12h | 120h 60m | Autoclave | 100°C 24h 14d | Yes | Co-cure with 80°C prepregs for resin rich surface |
| SF 96        | ~ Pinhole free surface for the easy application of paint systems | 85°C 10h | 120h 60m | Autoclave | 115°C 24h 5d | No | Co-cure with 85°C prepregs for resin rich surface ideal for sanding / priming prior to painting |
| SF 95VH      | ~ Surface film to generate a resin rich surface  
               ~ Suitable for subsurface applications  
               ~ Available in different colours | 85°C 10h | 120h 60m | Autoclave | 130°C 24h 3d | Yes | Ideal for applications that require a highly toughened system such as car body undertrays |

## Syntactic Core

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Main Features</th>
<th>Lowest Cure</th>
<th>Fastest Cure</th>
<th>Recommended Processing Method</th>
<th>Shelf Life</th>
<th>Typical Applications</th>
</tr>
</thead>
</table>
| SY 110       | ~ Lightweight, drapable core material  
               ~ Available at 0.7 and 1.0mm thickness | 85°C 10h | 130h 30m | Vacuum Bagging | 110°C 12h 56d | No | Produces ultra light and stiff panels |
**SP 11100, SP 4832, SP 9435**  
Monocomponent Fillers

- Co-curable with prepreg systems
- Compatibility of handling and processing
- Ideal for core splicing and gap filling

**INTRODUCTION**
SP 11100 - for use with 70°C Prepreg systems  
SP 4832 - for use with 80°C Prepreg systems, low density  
SP 9435 - for use with 85°C Prepreg systems, high density for high temperature applications

**TYPICAL APPLICATIONS**
Core splicing for use with 70°C - 85°C Prepreg systems.

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**SA 70**  
Toughened Epoxy Film Adhesive

- Low temperature cure  
- Compatible with SE 70 prepregs  
- Controlled flow for maximum bond integrity  
- Designed for bonding prepreg skins to honeycomb and certain foam cores

**INTRODUCTION**
SA 70 is a film adhesive that is designed for secondary bonding, core-bonding and for co-curing with the range of Gurit prepregs. It can be cured at temperatures as low as 70°C, or can be more quickly cured at temperatures above 120°C. The product has an out-life of 28 days.

**TYPICAL APPLICATIONS**
Suitable for bonding aluminium or foam cores in conjunction with Gurit’s range of Prepreg or Ampreg laminating systems. See individual Technical Datasheets for further information.

**PACK SIZES & AVAILABILITY**
SA 70 is available in weights up to 300g resin films with or without a glass carrier.

*150 and 250g only*

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**SA 80**  
Toughened Epoxy Film Adhesive

- Low temperature cure  
- Designed for bonding prepreg skins to honeycomb and certain foam cores  
- Controlled flow for maximum bond integrity  
- Toughened for impact resistance and peel strength

**INTRODUCTION**
SA 80 is a film adhesive that is designed for secondary bonding, core-bonding and for co-curing with the range of Gurit prepregs. It can be cured at temperatures as low as 80°C, or can be more quickly cured at temperatures above 120°C. It has an out-life of 56 days at room temperature.

**TYPICAL APPLICATIONS**
Suitable for bonding aluminium, foam and honeycomb cores in conjunction with Gurit’s range of Prepreg or Ampreg laminating systems. See individual Technical Datasheets for further information.

**PACK SIZES & AVAILABILITY**
SA 80 is available in weights up to 300g resin films with or without a glass carrier.

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**SF 70**  
Toughened Surfacing Film

- Toughened System  
- Protects underlying laminate  
- Reduction in surface film-laminate interfacial voids  
- Improved resistance to water ingress  
- Suitable for post painting

**INTRODUCTION**
SF 70 surfacing material is a light green, toughened, epoxy film designed to enhance the surface finish of moulded composite components. It allows a good surface finish to be obtained by vacuum-bag moulding processes. It can be used directly against a suitably release treated mould surface, with prepreg or SPRINT™ plies laid up behind it. When fully cured with SPRINT™ or prepreg, SF 70 forms a stable tough surface which can be sanded in preparation for painting. The epoxy system is supplied ready impregnated into a supporting medium and ready catalysed, requiring only a moderate temperature cure.

**TYPICAL APPLICATIONS**
Co-cure with 70°C prepregs for resin rich surface.
**SF 80**  
Toughened Surfacing Film  
- Toughened System  
- Protects underlying laminate  
- Reduction in surface film-laminate interfacial voids  
- Improved resistance to water ingress  
- Suitable for post painting  

**INTRODUCTION**  
SF 80 surfacing material is a light green, toughened, epoxy film designed to enhance the surface finish of moulded composite components. It allows a good surface finish to be obtained by vacuum-bag moulding processes. It can be used directly against a suitably release treated mould surface, with prepreg or SPRINT™ plies laid up behind it. When fully cured with SPRINT™ or prepreg, SF 80 forms a stable tough surface which can be sanded in preparation for painting. The epoxy system is supplied ready impregnated into a supporting medium and ready catalysed, requiring only a moderate temperature cure.

**TYPICAL APPLICATIONS**  
Co-cure with 80-120°C prepregs for resin rich surface.

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**SF 96**  
Sandable Surfacing Film  
- Easy to sand  
- Reduction in surface film-laminate interfacial voids  
- Stable surface up to 115°C (depending on cure)  
- Significant reduction in print-through  
- Improved opacity  

**INTRODUCTION**  
SF 96 surfacing material is an epoxy film designed to enhance the surface finish of moulded composite components. It allows a good surface finish to be obtained by vacuum-bag moulding processes. It can be used directly against a suitably release treated mould surface, with prepreg or SPRINT™ plies laid up behind it. When fully cured with SPRINT™ or prepreg, SF 96 forms a stable sandable surface which, once lightly sanded to provide a key for painting, provides a pin-hole free laminate. The epoxy system is supplied ready impregnated into a supporting medium and ready catalysed, requiring only a moderate temperature cure.

**TYPICAL APPLICATIONS**  
Co-cure with 80-120°C prepregs for resin rich surface ideal for sanding / priming prior to painting.

---

**SF 95VH**  
Abrasion-Resistant Surfacing Film  
- Hard protective coating  
- Increases surface longevity by up to 300%  
- Reduction in surface film laminate interfacial voids  
- Improved opacity  

**INTRODUCTION**  
SF 95VH surfacing material is a very hard, abrasion-resistant epoxy film. It is designed to protect vulnerable underbody components from damage caused by foreign objects. Typical applications include inner wings, and front wheel diffusers. SF 95VH can be used directly against a suitably release treated mould surface, with prepreg or SPRINT™ plies laid up behind it, or as a final layer in the mould. It can be cured with vacuum only processing. Due to abrasion-resistance of this material, it would not be usual to apply a paint finish. The epoxy system is supplied ready impregnated into a supporting medium and ready catalysed, requiring only a moderate temperature cure.

**TYPICAL APPLICATIONS**  
Ideal for applications that require a highly toughened system such as car body undertrays.

---

**SY 110**  
Low Density Syntactic Core  
- Lightweight drapable core material  
- Produces ultra-light and stiff panels  
- Wide process window; curing from 85-130°C (185-266°F)  
- Available at 0.7mm and 1.0mm thickness  

**INTRODUCTION**  
SY 110 is a lightweight, drapable core material that is designed to be co-curable with most Gurit Epoxy Prepreg and SPRINT™ materials, to produce ultra-light and stiff panels.

**TYPICAL APPLICATIONS**  
Co-cure with all Gurit Prepregs & SPRINT™ Fast lay-up times.
TECHNICAL INFORMATION AND PRICING

For more detailed information on performance and structural prepreg materials, as well as the complete Gurit product portfolio, please visit: www.gurit.com to view the following:

- Product Data Sheets
- Product Brochures
- News / Case Studies
- Composite Guides
- Events Schedules
- Representatives Contact Details

For pricing or other enquiries, please contact customer.support@gurit.com