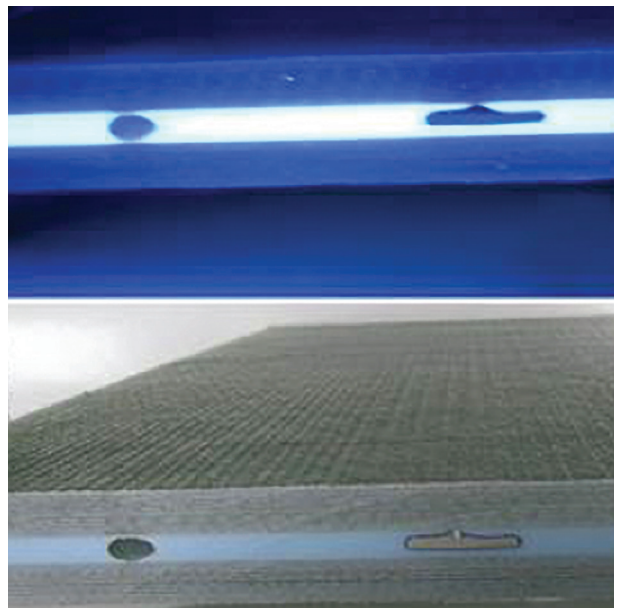




Spabond™ 840

DNV-GL Certified, Rapid Curing, Next Generation Epoxy Adhesive for the Wind Energy Industry Featuring LRT as Standard



INTRODUCTION TO SPABOND™ 840 EPOXY STRUCTURAL ADHESIVE

Spabond™ 840 is a high performance, toughened adhesive designed for bonding large structures such as wind turbine blades.

Spabond™ 840 is a cost-effective system with good thermal and mechanical properties with a long working time for adhesive application yet incorporates innovative chemistry to allow a rapid 2 hour cure time at elevated temperature. Key Benefits of Spabond™ 840 include:

- DNV-GL certified
- Long working time – for manufacture of large components
- Rapid cure in 2 hours at 70°C – allows reduced cycle time
- Reduced component weights; lower density when compared to glass filled adhesives
- High strength and next-generation high toughness & impact strength
- Formulated with Gurit LRT (Light Reflective Technology) as standard to allow easy inspection of hard to reach bond lines
- Low Toxicity Formulation:
 - Improved Hazard Labelling
 - CMR & SVHC** Free
- Excellent gap filling properties of up to 30mm
- Designed for mixing machine dispense
- Range of blend-able hardener speeds coming soon



HEALTH AND SAFETY FOCUS

Spabond™ 840 has been developed using the same approach as for the award winning Ampreg™ 3X Series, prioritising user health and safety through careful selection of base chemicals. The new low toxicity resin matrix is CMR and SVHC** free.

Gurit carefully selects chemicals used in our formulations to ensure the lowest possible risk of future reclassification - securing the safety of our products and health and safety of end users. This approach is part of Gurit's philosophy. As a responsible and sustainable supplier we aim to support, protect and forewarn our customers of potential changes.

CERTIFICATIONS

Spabond™ 840 is DNV-GL certified.

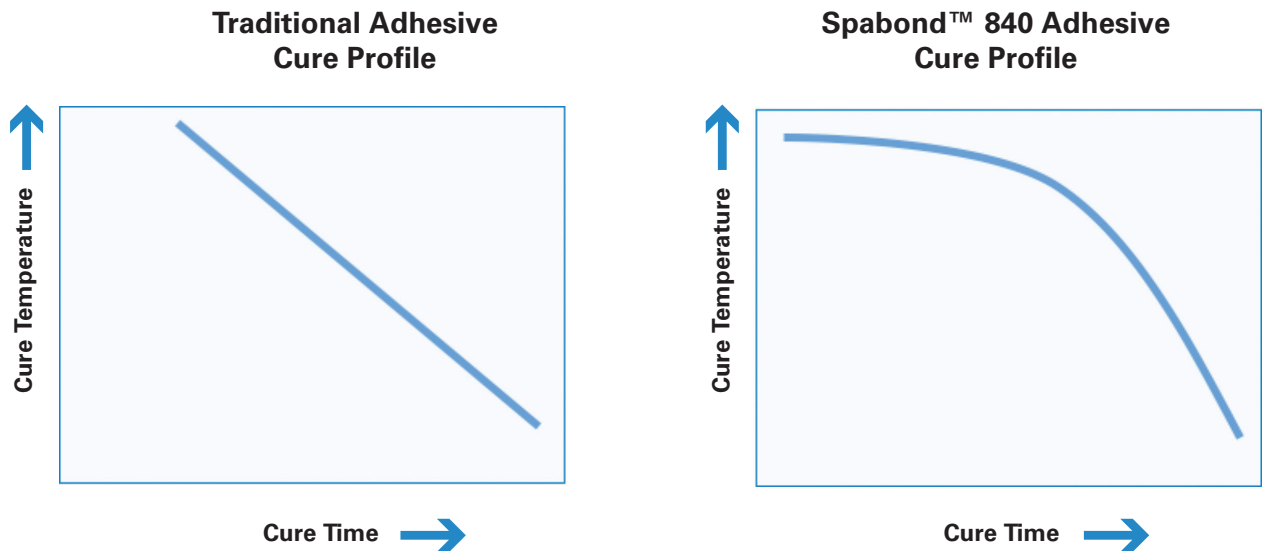


**CMR = Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction
SVHC = Substances of Very High Concern

CURING WITH A CURVE

A long-standing challenge with bonding large structures has been: how to create a system which does not (or is slow to) react at storage and application temperatures yet cures rapidly at cure temperature?

The solution: use innovative chemistry to change the fundamental cure profile behaviour:



Typical reaction profile → cure speed increases with temperature. Therefore systems that are “fast” at cure temperature/time are also “fast” in storage or application.

Spabond™ 840 technology uses different rate profile to maximise latency at application temperatures yet cure faster at higher cure temperatures.

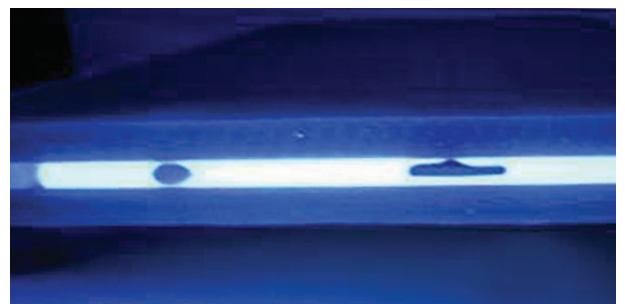
This industry first approach to altering the cure speed / temperature profile make Spabond™ 840 an ideal choice for bonding large structures such as WTG blades.

LIGHT REFLECTIVE TECHNOLOGY AS STANDARD

Spabond™ 840 available with LRT (Light Reflective Technology) as standard, providing 2 unique benefits:

1. Serves as a risk monitoring feature for the user & enables inspection of contamination with UV light.
2. Allows for easy inspection of hard to reach bond lines (right)

To learn more about Gurit® LRT, please refer to the respective data sheet at www.gurit.com





AVAILABILITY

Gurit® Spabond™ 840 structural Wind Energy adhesive is available globally. Bespoke hardener speeds are available on request. This unique epoxy adhesive comes in a wide range of straight-sided drum sizes from 25 to 200L.

SPABOND™ 840 WIND ENERGY ADHESIVE ORDER CODES

Resin Component Sizes	20KG	180KG
Spabond™ 840 Resin	F680-001	F680-002

Hardener Component Sizes	20KG	180KG
Spabond™ 840 Hardener	F680-003	F680-004

The Spabond™ 840 Resin : Hardener mix ratio is defined as follows:

- 100 : 33 parts by weight
- 100 : 30 parts by volume

Note that relative ordering quantities are as follows:

- 3 x 20KG pails Spabond™ 840 Resin = 1 x 20KG pail Spabond™ 840 Hardener
- 1 x 180KG drum Spabond™ 840 Resin = 3 x 20KG pails Spabond™ 840 Hardener
- 3 x 180KG drum Spabond™ 840 Resin = 1 x 180KG drum Spabond™ 840 Hardener

FURTHER INFORMATION

For more detailed information on the Spabond™ range, as well as the complete Gurit product portfolio, please visit: www.gurit.com

For technical support, please contact technical.support@gurit.com

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