

# SPABOND 5 MINUTE

## TACKING AND SECONDARY BONDING ADHESIVE

- ▮ 5 minute adhesive
- ▮ Ideal when used as an “extra hand” in assembly
- ▮ Can be used alongside other Spabond products
- ▮ Available in cartridges

### INTRODUCTION

**Spabond 5-Minute uses Gurit’s fast-setting technology. It combines outstanding bonding speed with a simple 1:1 by weight and by volume mix ratio. This thixotropic system is ideal for general bonding and repair work on a wide range of materials.**

Components bonded with Spabond 5 Minute demonstrate high bond strengths and can be handled after a very short period of time.

Spabond 5-Minute can be used in conjunction with other Spabond products as a “spot weld” system in situations where the use of conventional clamps is not possible.

## PRODUCT INFORMATION

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### AVAILABILITY

The product is available in a number of formats please contact your local customer support or download the latest product catalogue available on [www.gurit.com](http://www.gurit.com).

### TRANSPORT & STORAGE

The resin and hardeners should be kept in securely closed containers during transport and storage. Any accidental spillage should be soaked up with sand, sawdust, cotton waste or any other absorbent material. The area should then be washed clean (see appropriate Safety Data Sheet).

COMPONENT	UNITS	10 – 25°C
Spabond 5 Minute Resin	months	12
Spabond 5 Minute Hardener	months	12

Adequate long term storage conditions will result in a shelf life of 1 year for both the resin and hardeners. Storage should be in a warm dry place out of direct sunlight and protected from frost. The storage temperature should be kept constant between 10°C and 25°C, cyclic fluctuations in temperature can cause crystallization. Containers should be firmly closed. Hardeners, in particular, will suffer serious degradation if left exposed to air.

For more information on crystallization please refer to the Adhesives section on the Gurit website. ([www.gurit.com](http://www.gurit.com))

## INSTRUCTIONS FOR USE

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The product is optimised for use at 15 - 25°C. At lower temperatures the components thicken and may eventually become unworkable. To ensure accurate mixing and good workability pre-warm the resin & hardener as well as the surfaces to be bonded before use.

### SURFACE PREPARATION

Before using the product ensure that surfaces to be bonded are clean, dry and dust-free. Prepare all surfaces by abrading with medium grit paper or other suitable abrasive, remove dust then wipe with acetone.

**Metals** - usually require a chemical pre-treatment to create the best bond. Please contact Gurit for a Guide to Surface Preparation and Pre-treatments.

**Polyester or vinylester** - ensure laminates are fully cured before bonding, then prepare as above.

**Epoxy laminates** - it is recommended to use a suitable Peel Ply as the last stage in their manufacture, otherwise prepare as above. Trials may be required to test Peel Ply suitability.

**Ferrocement** - etch with 5% solution of hydrochloric acid, wash with fresh water, then dry.

**Timber** - sand with abrasive paper across grain. Degrease oily timber with a fast evaporating solvent (e.g. acetone). For resinous or gummy timber, etch with 2% caustic soda solution, wash off with fresh water and dry.

### MIXING & HANDLING

Solvent-free epoxies have a limited pot life. Mix sufficient only for immediate use to avoid excessive heat build up and resin wastage : with Spabond 5 Minute Adhesive, mix enough for 2-3 minutes use. This product is highly exothermic, and care should be taken when disposing of unused mixed material.

## HEALTH AND SAFETY

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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 moisturising cream should be used after washing.
2. Overalls or other protective clothing should be worn when mixing, laminating or sanding. Contaminated work clothes should be thoroughly cleaned before re-use.
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 vapours 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
  - 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.

### APPLICABLE RISK & SAFETY PHRASES

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.

## SPABOND 5-MINUTE

This 1 page product summary is intended for use in conjunction with further advice provided under the Instructions for Use section. All data has been generated from typical production material and does not constitute a product specification.

### MIXING AND HANDLING

PROPERTY	UNITS	SP 5-MIN RESIN	SP 5-MIN HARDENER	MIXED SYSTEM	TEST METHOD
Appearance - colour	Gardner	Opaque	1	3	-
Appearance - form	Description	Thixotropic paste			
Mix ratio by weight	Parts by weight	100	100	-	-
Mix ratio by volume	Parts by volume	100	100	-	-
Density at 21 °C	g/cm <sup>3</sup>	1.16	1.16	1.16	Archimedes

### COMPONENT & MIXED SYSTEM VISCOSITY

PROPERTY	UNITS	15 °C	20 °C	25 °C	30 °C	TEST METHOD
Spabond 5 Minute Resin Viscosity	P	1110	434	174	106	
Spabond 5 Minute Hardener Viscosity	P	970	595	303	222	
Initial Mixed System Viscosity	P	709	370	201	91	
Gel time (150 g, in water)	hrs:min	04:16	03:40	03:06	02:40	
Clamp Time*	hrs:min	22	19	16	14	BS 5350 Part C1
Sag resistance	mm	15	13	12	10	

### ADHESIVE PERFORMANCE

MECHANICAL PROPERTIES	SYMBOL	UNITS	28 DAYS AT 21 °C	16 HOURS AT 50 °C**	5 HOURS AT 70 °C**	TEST STANDARD
Cleavage on steel	F <sub>cleavage</sub>	kN	3.8	5.6	6.7	BS 5350 Part C1
Lap shear on steel	τ <sub>steel</sub>	MPa	12.6	18.0	25.8	BS 5350 Part C5

### CURED MECHANICAL AND THERMAL PROPERTIES

MECHANICAL PROPERTIES	SYMBOL	UNITS	28 DAYS AT 21 °C	16 HOURS AT 50 °C**	5 HOURS AT 70 °C**	TEST STANDARD
Glass Transition Temperature	T <sub>g1</sub>	°C	50	67	55	ISO 6721 (DMA)
Cured Density	ρ <sub>ply</sub>	g/cm <sup>3</sup>	-	-	1.20	Archimedes
Volumetric Shrinkage		%	-	-	3.3	Archimedes

\*Clamp time data shows the time taken to achieve a 2000N bond strength.

\*\*initial cure of 24 hours at 21 °C

#### CARTRIDGE USE

If dispensing product from twin cartridges with a mixing / dispensing head, please discard the first mix head length of resin and hardener components, prior to applying adhesive to the job, in order to ensure thorough mixing of the system. We recommend the use of a new mix head for each application, particularly where the time between each application approaches the pot life.

#### GLUING

Spabond 5-Minute has a higher shear strength and toughness than multipurpose epoxies which makes it more suitable for bonding both high strength materials and dissimilar materials. It can be used as a "spotweld" adhesive to hold components in position while another adhesive systems is curing. Spabond 5 Minute Adhesive is supplied as a partially filled system which gives it greater thixotropy than standard epoxy systems.

## NOTICE

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The Company strongly recommends that Customers make test panels in the final process conditions and conduct appropriate testing of any goods or materials supplied by the Company prior to final use to ensure that they are suitable for the Customer's planned application. Such testing should include testing under conditions as close as possible to those to which the final component may be subjected. The Company specifically excludes any warranty of fitness for purpose of the goods other than as set out in writing by the Company. Due to the varied nature of end-use applications, the Company does, in particular, not warrant that the test panels in the final process conditions and/or the final component pass any fire standards.

The Company reserves the right to change specifications and prices without notice and Customers should satisfy themselves that information relied on by the Customer is that which is currently published by the Company on its website. Any queries may be addressed to the Technical Services Department.

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.

## TECHNICAL CONTACT INFORMATION

For all other enquiries such as technical queries:

Telephone + 44 1983 828000 (08:30 – 17:00 GMT)  
Email [technical.support@gurit.com](mailto:technical.support@gurit.com)

## 24-HOUR CHEMICAL EMERGENCY NUMBER

For advice on chemical emergencies, spillages, fires or exposures:

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