TECHNICAL DATA SHEET				
bonding people fixing problems INNOVA solutions	TDS No:	019	Issue No:	1
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PRODUCT	NovaBond SG			

Product Description.

NovaBond SG (Shear Grip) is a very aggressive synthetic rubber resin adhesive reinforced with a cotton cloth or polyester scrim to give incredibly high cohesive strength which provides excellent shear, peel, and tensile performance even under the most demanding stress forces. The special, highly cross-linked formulation exhibits superior resistance to activity from most plasticisers and is virtually impervious to water and moisture once bonded to non-absorbent substrates. The adhesive retains its high internal strength even at elevated temperatures and will bond to almost any substrate being especially proficient on difficult to bond to a-polar or low surface energy materials. It is available in three thicknesses: SG 15 at 0.20mm thick, SG 30 at 0.265mm thick and SG 80 at 0.75mm thick to allow for optimum bond strengths to different surface structures.

Product Specification.

Carrier:	SG80 Cotton Cloth SG15 & 30 Polyester scrim
Adhesive:	Specially formulated synthetic rubber resin to provide excellent bonding properties with the most demanding substrates. The adhesive exhibits excellent peel and shear performance.
Liner:	The tape is protected by a 128gsm Clay Coated Bleached Kraft NOVA Printed Liner.
Applications:	NovaBond SG is ideal for bonding metals, low surface energy plastics, fabric, wood, ceramics, granite and even sound concrete. It will provide high strength, Long-term bonds on virtually any material or substrate. The heavy coat weight of such a high cohesive strength adhesive lends the use of NovaBond SG to bond into fibrous, porous and irregular surfaces working well on applications such as bonding large PVC, Opal jet and even open mesh type banners, even when used outside in wet and windy environments and applications in the sign industry where high strength bonding of a vast array of plastics like acrylic, polycarbonate, correx, composite materials and foamed PVC is required. NovaBond SG also has many applications in the flooring accessory market for Bonding Aluminium and PVC stairnosings, mounting carpet, fixing skirting boards, fascia's and various trims.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

How To Apply:	To achieve the best adhesion results the surfaces to be bonded must be clean, dry and free of dust and loose particles. The ideal cleaning method should incorporate the use of a non-residual cleaning solvent such as NovaBond Surface Cleaner. To attain the optimum bond strength sufficient pressure should be applied to the tape to ensure good adhesive wet out onto the substrates. The tape is pressure sensitive and the best results are achieved with maximum surface contact under pressure. The bond strength builds to its optimum strength after 12-24 hours, this can be reduced by exposing the bonded materials to temperature of 60°C for approximately 1 hour. Application temperature ranges between 20°C-35°C. On certain substrates a primer may be necessary to seal the surface if it is very porous.

Product Specification.

NovaBond SG 15

Colour	Transparent
Total Thickness	0.20mm
Adhesion to steel at 23°C	1.2N/mm
Static Shear Resistance @ 23 °C	>200 hours
Rolling Ball Tack @ 23°C	<50mm
Tensile Strength	2.7N/mm
Service Temperature	-10 °C to +60 °C Short term 80 °C

NovaBond SG 30

Colour	Transparent
Total Thickness	0.265mm
Adhesion to steel at 23°C	2.3N/mm
Static Shear Resistance @ 23 °C	>200 hours
Rolling Ball Tack @ 23°C	<50mm
Tensile Strength	3.1N/mm
Service Temperature	-20 °C to +60 °C Short term 80 °C

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NovaBond SG 80

Colour	Very Pale Yellow
Total Thickness	0.75mm
Adhesion to steel at 23°C	2.9N/mm
Static Shear Resistance @ 23 °C	>200 hours
Rolling Ball Tack @ 23°C	<50mm
Tensile Strength	5.12N/mm
Service Temperature	-20 °C to +60 °C Short term 80 °C

Unless otherwise stated all of the above figures are averages values.

Storage

This product should be stored in ambient temperatures of around 20C, avoiding wide temperature fluctuations and direct sunlight. The storage environment should have a relative humidity of approx. 50%. In ideal storage conditions, the shelf life for this material should be approx. 12 months from the delivery date.

Within this period, no major deterioration or alteration of the products performance characteristic will occur. The values presented in this document have been determined by standard test methods and are average values that should not be used for specification purposes.

Our recommendations regarding the use of our products are based on tests considered by INNOVA SOLUTIONS to be reliable, but the customer must conduct his own test to determine the suitability of the product to the individual's application and requirements.

INNOVA SOLUTIONS do not accept responsibility or liability, directly or consequentially, for loss or damage caused as a result of our recommendations.

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