

bonding people fixing problems

INNOVA
solutions



**Nova Range for
the Sign Maker**

Tapes

The right high strength bonding tape for your application – no compromises. A range of aesthetically pleasing, durable high strength bonding tapes, specifically manufactured for the secure, reliable bonding of a range of substrates including metals, glass, industrial plastics and composite materials. Our cutting edge range of NovaBond eco friendly, solvent free tapes have been trusted for over 10 years by industry to constantly deliver benefits such as improved aesthetics, flexibility to use lighter, thinner materials, adhesion to difficult to bond to, low surface energy substrates and bonding dissimilar materials whilst allowing for differential thermal expansion.



High Strength Bonding Tapes

In tests against the market-leading brand, NovaBond XS outperforms its competitor by almost 75% on peel strength and over 50% on shear resistance. They resist impact. They withstand elevated heat.

NovaBond XS is the foamed acrylic bonding tape specially formulated for sign makers, and tailored to your specific substrate. Whether you're working with glass, plastic, metal or ACM, NovaBond XS makes finding the ideal bonding tape for your material easy.



High Performance Double Sided Tapes

NovaFix is a range of high performance double sided tapes designed for a better finish.

Signage and manufacturing: Choose NovaFix SignMate HP for thin, invisible bond lines. Bonds virtually anything in virtually any environment.



High Shear Adhesive Tapes

NovaBond SG high shear bonding tapes perform. They stay strong against the elements.

SG stands for 'Shear Grip'. It's a rubber adhesive with a high level of immediate tack, extreme shear resistance and high peel strength. The modified adhesive structure resists water and plasticisers. And the highly crosslinked rubber molecules, in combination with a tough polyester or cotton scrim produces a high shear bonding tape that bonds virtually anything.



Double Sided Foam Tapes

Foam Tapes can insulate against noise, vibration and galvanic corrosion as well as filling irregular gaps in the bond.

NovaFoam self-adhesive foam tape: Sign makers choose double sided foam tape because of its gap-filling properties. It also makes light work of bonding irregular surfaces and different textures.



Banner Tapes

Each of our double-sided banner tapes delivers high strength bonding on flexible vinyl.

The range includes clear filmic tapes for invisible bonding, scrim and tough filmic carriers to reinforce eyelets and add rigidity to the banner edges. The high tack adhesives will withstand wind stresses, UV, temperature fluctuations and moisture – strong enough for the toughest exterior application



Spool Wound Tapes

We are able to offer spools or bobbins to speed up production output due to less roll changes. Products are available in various formats with a combination of both flush and oversized liners to aid application by the end user.

Foam tapes (where there is some mismatch between the surfaces and a level of gap filling is required), thin filmic tapes (used where the substrates are flush fitting), scrim tapes (incredibly high shear strength for flush fitting substrates) and foamed acrylic tapes.

Surface Preparation

and primers to aid with the secure, reliable bonding of substrates such as metals, glass and low surface energy plastics. Formulated specifically for use with our Nova range of tapes and adhesives, in tests by Loughborough University, bond strength was found to increase by as much as 50%.

Getting the best bond from your tape or adhesive starts with a clean surface. Innova Solutions offer a range of ancillary cleaners and primers to aid with the secure, reliable bonding of substrates such as metals, glass and low surface energy plastics. Formulated specifically for use with our Nova range of tapes and adhesives, in tests by Loughborough University, bond strength was found to increase by as much as 50%.



To obtain the best results, surfaces must be clean, dry, free from oil, grease and any other contaminants that will be detrimental to accepting adhesives.

We always recommend abrading wherever possible to 'key' both surfaces (this can increase the surface area and enhance bond strength by up to 30%) – tooling up for this will preserve the aesthetics of the sign by abrading just the bond areas.

Subsequent cleaning with a non-residual cleaning solvent such as Novabond Surface Cleaner will further assist the adhesion of the tape to the substrate surface.



1. Abrade

Where possible abrade the surface to provide a 'key'



2. Clean

Clean surface with NovaBond Surface Cleaner



3. Prime

If necessary, prime surface with NovaBond Surface Primer



4. Pressure

Apply NovaBond with the use of a NovaBond roller applying firm pressure



5. Join

Remove liner, line up the parts and apply second substrate



6. Pressure

Again apply firm pressure to the bond with the NovaBond roller



7. Time

NovaBond will continue to flow and build up strength reaching Ultimate Bond Strength in 72 hours

Adhesives

A range of high quality adhesives giving incredible bond strength across a wide range of substrates. Formulated from cutting edge technologies by our manufacturing chemists, allows us to produce products to customers exacting criteria in terms of viscosity, cure speed and colour. The ranges include the NovaWeld family of 2-part structurals, NovaSeal flexible adhesive / sealants and NovaLite invisible, white light or UV curing adhesives. We are also able to offer bespoke packaging options to suit customers specific requirements.



Structural Glues

NovaWeld two part structural adhesives give incredibly high ultimate bond strength.

Across a wide range of substrates including steel, aluminium, polycarbonate, composite materials and engineering plastics – and in the harshest environments – NovaWeld performs.



Plastic Welding Adhesives

Available as single or dual components, for indoor (NovaSol 12000NC) or outdoor (NovaSol 7000NC) use, both solvent adhesives are dichloromethane free and primarily designed for bonding cast and extruded acrylic sheet.

Applications include signage (for strong, clear bonding of acrylic signs), shopfitting and retail (for point of sale displays and shop fixtures that match strength and stability with aesthetic appeal) as well as mechanical engineering, model building and more.

Adhesive Remover & Cleaner

NovaBond ARC – Adhesive Remover & Cleaner is a food grade clear, colourless bio-based oil combined with cleansing alcohol and a mild, slow evaporating solvent, which cleans and protects.

It dissolves adhesive, grease, tar & gum removing them cleanly from surfaces leaving a protective film that can be removed with a mild detergent solution if necessary.

It also protects against further adhesive bonding / residues and repels moisture. NovaBond ARC is also ideal for cleaning stainless steel surfaces, leaving them clean and with a protective light film of oil. It will clean and protect workshop tools and cutting machinery resisting further adhesive build-up.

Can be supplied in liquid format, for manual application on a lint-free cloth, or for the use of 'dipping'. Also available in an aerosol.



Invisible Laminating Adhesives

White light and a few seconds. That's all it takes to cure NovaLite laminating adhesives.

And with a low viscosity, water clear formulation you can achieve an invisible, consistent, strong bond, even over large surface areas.



UV Weather Resistant Bonding Adhesives

NovaSeal polymer adhesives don't act like ordinary adhesives. They're UV and weather resistant, meaning you can use them indoors or outdoors without any loss of adhesive strength. You can even use them to bond damp surfaces.

They're an elastomeric polymer, so they blend excellent sealing properties with a strength you wouldn't normally associate with a sealant.

Adhesive & Grease Cleaner

NovaBond AGC – Adhesive & Grease Cleaner is a clear, colourless citrus-based oil combined with a hydrocarbon based cleaner which dissolves adhesive, grease, tar & gum removing them cleanly from surfaces leaving a protective film that can be removed with a mild detergent solution if necessary.

It will clean workshop tools and cutting machinery.

Available in a trigger spray.

Can be supplied in liquid format, for manual application on a lint-free cloth, or for the use of 'dipping'.

NovaBond Product Versus Substrate

Substrate	Opaque Plastics ♠	Clear Plastics ♠	LSE Plastics ♠	Bare Metals ♣	Painted Metals ♠	Glass ♦	Primed Concrete
Opaque Plastics §	XS 110W	XS 100C	LSE 80	XS 110W	XS 110W	XS 100C	SG80
Clear Plastics §	XS 100C	XS 100C	LSE 80	XS 100C	XS 100C	XS 100C	XS 100C
Bare Metals*	XS 110W	XS 100C	LSE 80	XS 110G	XS 110W	XS 100C	SG80
Painted Metals §	XS 110W	XS 100C	LSE 80	XS 110W	XS 110B	XS 100C	SG80
Glass	XS 100C	XS 100C	LSE 80	XS 100C	XS 100C	XS 100C	XS 100C

♣ For bonding bare metals prior to powder coating or for very high temperature applications, abrade surface, clean & use NovaBond SignFix XS110W in conjunction with NovaBond Metal Surface Primer.

♠ For difficult, low surface energy plastics or waxy, powder coatings, prime surface with NovaBond LSE Surface Primer, preferably abrading prior to application, & use NovaBond SignFix LSE 80.

♦ For bonding to glass, clean well with NovaBond Surface Cleaner & prime with NovaBond Glass Primer

Select product thickness depending on substrate surface irregularities & gap-filling required. Optimum thickness is the minimum that will allow 100% surface contact which defines the ultimate bond strength.

NovaWeld Two-Part Structural Adhesives

Product	Working Time	Comments
NovaWeld SignFix 7	5-7 Mins	Thixotropic methacrylate. Commonly used to bond Big Head fasteners; can withstand powder coat temperatures.
NovaWeld SignFix 12	2-3 Mins	A clear, structural methacrylate for high strength bonding of plastic and composite materials. Gives a clear bond line.
NovaWeld SignFix 18	2-3 Mins	Pink/Green methyl methacrylate fast setting, toughened structural acrylic for bonding metals, plastics, composites and a range of sign making substrates
NovaWeld SignFix 33	2-3 Mins	Polyurethane adhesive. Fast setting and eliminates 'read through' marks on composite materials.

NovaSol Plastic Welding Adhesive

Product	Alternative to	Comments
NovaSol 7000NC	Tensol 70 Acrifix 190	Dichloromethane free two part solvent adhesive that welds plastics. Suitable for outdoor use.
NovaSol 12000NC	Tensol 12 Acrifix 116	Dichloromethane free single component version of the above, primarily for indoor use.

Innova's Product Range Also Includes:

Jessup Safety Track	Anti-Slip Tapes
Jessup Glo Brite	Photoluminescent Materials
NovaFix	Double Sided Tapes
NovaFoam	Double & Single Sided Foam Tapes
NovaMag	Magnetic Tapes, Sheets & Die-Cuts
NovaSeal	Sealing & Bonding Compounds
NovaTac	Low Bloom Super Glues
NovaBond	High Strength Bonding Tapes
NovaWeld	Structural Adhesives
NovaLite	Invisible Laminating Adhesive
NovaSol	Acrylic Welding Adhesive
NovaLastic	Banner Tapes

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