

TECHNICAL DATA SHEET

	TDS No:	056	Issue No:	4
	Issue Date:	14.01.25		
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PRODUCT	NovaWeld SignFix 7			

IDENTIFICATION OF THE SUBSTRATE/PREPARATION & COMPANY

Product Name:	NovaWeld SignFix 7	
Company:	Innova Solutions Limited	Tel: 01282 867390
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DESCRIPTION

NOVAWELD SignFix 7 is a new generation of 2 part 1:1 component mixing structural acrylic adhesives. It is fast setting when mixed via a static mix nozzle at room temperatures. NovaWeld SignFix 7 demonstrates improved impact strength, peel shear and tensile resistance and exterior performance. Because it is a thixotropic, non-sag adhesive, the mixed material is ideal for all types of gap filling requirements on steel, aluminum, polycarbonates and general plastics. It is also very good for vertical surface bonding without running. NovaWeld SignFix 7 exhibits excellent structural strength even without priming the surfaces. Owing to its macro molecular structure, the bonds formed show excellent durability and high peel strength even when filling large gaps and demonstrate excellent solvent and environmental resistance to moisture, hydro-carbon fuels, lubricants, cleaning chemicals and fluids.

TYPICAL USAGES OF NOVAWELD SIGNFIX 7

Structural bonding in the sign industry of most sign making materials especially mild and stainless steels, aluminum, polycarbonate and acrylic sheets, composite panels and even stone and ceramics where high impact strengths are needed. The thixotropic nature of NovaWeld SignFix 7 is ideal for bonding Bighead fasteners and other locators. Other applications include wind turbines, vehicle roofs, fiberglass, sports goods, automotive spoilers, vents, housings. The high temperature adhesive formulation allows for bonding metal parts prior to powder-coating and oven stoving cycles.

APPLICATION INSTRUCTIONS

- Always consult MSDS before using SignFix 7 for the first time.
- Carry out surface preparation where required.
- Remove cap, and attach mixer nozzle.
- Dispense sufficient adhesive to ensure equal mix.
- Apply adhesive to one surface and assemble components carefully, clamping if required.
- It is always easier to remove any excess adhesive prior to cure using a suitable cleaner. Allow the adhesive sufficient time to achieve handling strength before moving or unclamping

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.

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CURING CYCLE

Once mixed at the 1:1 ratio the working time of the SignFix 7 is the period whereby the adhesive remains fluid and is easily transferable between two or more mating surfaces. Temperature, volume and substrate have a direct effect on the length of this period as the SignFix adhesive cures by an exothermic reaction. Higher temperatures and larger volumes speed the reaction causing a reduction in open and cure time. Lower temperatures and smaller volumes slow the reaction time extending both the open time and ultimate full cure time.

COMPATIBLE SUBSTRATES

Aluminium	Wood
Stainless steel	Granite
Mild steel	Marbl
UPVC	Urethanes
Polyesters	Vinyl esters
ABC	Glav / Zinc coated
Acrylic	Thermoset
FRP	Gelcoa
GRP	Epoxy laminate

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TYPICAL UNCURED PROPERTIES NOVAWELD SIGNFIX 7

Resin	Methyl Methacrylate
Colour	Yellow / White
Appearance	Thixotropic Gel
Viscosity brookfield t bar	400,000 to 600,000cps
Cure system c	Exothermic
Open time	7 minutes @ 20°C 10g mass
Handling strength	12 minutes @ 20°C 10g mass
SG Part A	0.96
SG Part B	0.91

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TYPICAL CURED PROPERTIES NOVAWELD SIGNFIX 7

ASTM D1002 lapshear	Average over 16 tests
Aluminium	20.4Nmm2
Stainless steel	38.4Nmm2
Mild steel	38.4Nmm2
GRP	Substrate failure
ABS	Substrate failure
Acrylic	Substrate failure
ASTM D638 tensile	Up to 30 Nmm2
Gap fill	4mm
Standard temperature	-55°C to 120°C
Paint bake cycle	20 minutes @ 220°C
Aluminium lapshear following moist cataplastm 7 days @ 70°C	26.7 MPA
Peel Strength Aluminium	6KN/m
Shore hardness	75 shore D

STORAGE & SHELF LIFE

SignFix 7 should be stored unopened in suitable hazardous storage conditions for flammable adhesives that are cool, dry locations between 6-12°C and out of direct sunlight. Stored correctly, this grade can offer a 12-month shelf life from its manufacture in the UK.

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HEALTH AND SAFETY IN USE

SignFix 7 is a methyl methacrylate and should not be used without consulting the MSDS, which contains full information regarding the use of this product, including Transport, Disposal, Toxicological, Exposure Controls, Accidental Release and First Aid measures essential to the safe use of this product.

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