



Bonham Drive, Eurolink Industrial Estate
Sittingbourne, Kent ME10 3RY
enquiries@eurobond-adhesives.co.uk
www.multifix-adhesive.com
+44 (0)1795 427888

Technical data Sheet Eurobond Safe Fix

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The Eurobond Safe Fix is a single component, fire rated MS polymer adhesive. It is ideal for bonding and sealing many different material types. Cured material is resistant to water and forms an air tight seal. At 20°C with 50% of relative humidity, the skin formation time is about 10 minutes only and the curing speed is 5 mm/24hours. This material should be applied in temperatures between 5°C to 35°C.

Eurobond Safe Fix exhibits up to 400% elongation offering excellent resistance to impact, vibration and thermal cycling.

Characteristics

- **Fire and smoke resistances.** The products obtained the **M1/F1** accreditations (according to the standards NF F 16-101 and STM-S 001).
- Temperature resistant from -40 to 140 °C and up to 200 °C for short peaks without any loss of mechanical characteristics.
- Resistant to freshwater, salt water or demineralised water, including during a permanent immersion.
- U.V. stable without yellowing and without affecting mechanical resistances.
- Aggressive environments: Water, sea water, oils, most common solvents, high humidity.

Eurobond Safe Fix does not emit any smell during curing and is solvent, phthalate, isocyanate and silicone free.

Will bond:

- Glass
- Metal as aluminium, steel, and all types of alloy...
- Technical plastics as ABS, acrylic, PVC, polycarbonate....
- Laminated glass/resin; polyester (including DCPD), vinyl ester, epoxy, with or without gel coat as well as SMC/BMC and pre-impregnated epoxy.
- Soft or hard woods including teak.

Substrates have to be assembled in 15 minutes (at 20 °C/50% R.H.) after applying Eurobond Safe Fix.

Liquid product properties

Appearance:	Grey, white
Specific gravity (g/cm ³ @ 20°C):	1.55-1.58
Viscosity* Pa.s @25°C):	190 ± 30
Yield point *(Pa):	630-650
(*): Rheometer	

Adhesive physical properties

Hardness (Shore A):	60
% elongation *:	380
Tensile strength at break (MPa) *:	2.4
*: with the norm ISO 527-1A.	
1MPa = 145,0 psi	

Kinetics of reaction and assembly mechanical properties

Skin formation time (min)	10-15
Curing speed (mm/24H)	5

Lap Shear Strength (MPa)*

Stainless steel	2.1 MPa
Aluminium	2.3

Type of substrate

*inspired by the norm NF EN 1465

CF: systematic cohesive failure.

1MPa = 145,0 psi

Temperature resistance

Temperature slot : -40 °C / + 150 °C up to 200 °C (at top temperature).

No significant change of colour and mechanical properties after 3000H of UV ageing test. Fit to pigmented

plastics without any migration of pigments in the adhesive joint.

*Data is typical and not to be used for specification purposes.

Surface preparation

Use Eurobond IPA Surface wipes for surface clean-up and ensure loose dust and particles are removed.

Packaging

Eurobond Safe Fix is available in 290mL cartridges.

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