

Technical Data Sheet

Multi-Flex is a special kind of adhesive used to create fast, high strength bonds. Though it looks a lot like a two-part epoxy or MMA, Multi-Flex is neither of these. It is, in fact, based on a specialised, 2-part, hybrid polymer which allows it to still retain good elasticity after it has cured.

Unlike epoxies, Multi-Flex remains slightly flexible once cured which allows it to absorb slight joint movement and flexing. It is highly loadable after curing and helps to cushion impact loads so that surfaces that have been joined are not damaged.

Our Multi-Flex is manufactured by Weicon in Germany and is based on their decades of experience with MS Polymer technologies. This strong, powerful adhesive offers many benefits, including:

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Fast cure time.

Multi-Flex cures via a chemical polymerisation process which occurs when the two parts are mixed. This allows for accelerated cure times when compared to humidity-reacting adhesives. Bonds created with Multi-Flex can bear mechanical loads after about 40 minutes. Full cure takes about 2 hours.

Excellent material compatibility.

Our Multi-Flex Adhesives works with nearly all materials and surface types including wood, metal, glass, ceramic and most plastics. It also can be used bond different rubbers (excluding Chutex and Silicone). Multi-Flex works well with smooth or rough surfaces.

Easy to use.

Since it is a two-part adhesive, Multi-Flex does require some mixing. However, thanks to the double-cartridge system used by Weicon, there's no measuring involved. Simply dispense the amount you need (rejecting the first centimetre of the bead) and mix thoroughly. This can be done on the surface you wish to bond.

This adhesive is also compatible with our Quadro Mixing Nozzles though these are not required for use.

Long lasting.

Bonds made with Multi-Flex are incredibly versatile. This professional-quality adhesive is resistant to weathering, aging and UV. It can be used for bonding work indoors or outdoors.

Applications

- Electronics manufacturing and repair.
- For securing the casings on lights and audio equipment.
- For interior work in the automotive manufacturing and repair sector.
- For home, hobby and DIY work.
- In the marine industry for boat interior work.
- In general manufacturing and repair work.
- As a substitute for epoxies or MMAs in the building and construction industries.

Important

The values listed here and the information presented should not be treated as a substitute for specific technical advice. We cannot warrant the products performance or suitability for particular applications.

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Technical Data Sheet**Properties**

Composition	2 Component Hybrid Polymer
Colour After Curing	Grey
Density	1.37 g/cm ³
Viscosity	Pasty
Processing Temperature	+5°C to +35°C
Pot Life (at 23°C and 50% RH)	8 Minutes
Capable of Bearing Mechanical Loads (50% of Final)	40 Minutes
Fully Cured (100%)	2 Hours
Cure Type	Chemical Polymerisation
Volume Change (DIN 52451)	1%
Max. Gap Filling	10mm
Temperature Resistance (After Curing)	-40°C to +90°C
Shore A Hardness (DIN 5355 / ASTM D 224)	37 (±5)
Elongation At Break (DIN 53504 / ASTM D 2240)	300%
Tensile Strength of the Pure Adhesive & Sealant	1.7 N/mm ²
Average Tensile Shear Strength (DIN 53283 / ASTM D 12)	1.3 N/mm ²

Surface Preparation

First, ensure that surfaces are clean and dry (Weicon Cleaner Spray S or Plastic Cleaner may be ideal). Best results are achieved when the surfaces being bonded are mechanically roughened.

Processing

Multi-Flex can be processed directly from the double cartridge container. Reject the first centimetre of the dosed bead. Mix the product thoroughly. Apply the adhesive mixture quickly to only one of the surfaces being joined. Join both surfaces immediately afterwards.

Storage

When stored unopened and in a normal climate (23°C & 50% RH) Multi-Flex has a minimum shelf life of 6 months. Storing in the fridge will significantly lengthen its usable life and is strongly suggested for Australian users.

Availability

Weicon Multi-Flex is available from Swift Supplies in 25ml tubes.

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