

Technical Data Sheet

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Flex+Bond Liquid is a versatile adhesive sealant that is ideal for coating, casting and encapsulating work. Engineered by Weicon in Germany, this adhesive is based on MS Polymers and is completely free of silicones, solvents and isocyanates. It sticks to most materials and surfaces.

As a self-levelling liquid, Flex+Bond Liquid is very easy to work with. It can be used to create castings up to 10mm deep and cures to form a solid mass that has good flexibility. Once fully cured, it will handle movements in bonded joints of up to 10% and has a maximum elongation of 400%.

Flex+Bond Liquid is white in colour. Once cured, it can be painted over with liquid paint.

Skin-Over time for Flex+Bond Liquid is about 40 minutes while full curing will occur at a rate of about 2-3mm in the first 24 hours. This liquid adhesive sealant will withstand temperatures between -40°C and +80°C once cured (as well as short term spike to +120°C).

Applications

- Electrical and electronic device manufacture and repair.
- Metal engineering and tank construction.
- Casting of cable connection.
- Valve construction and repair.
- Heating, Ventilation and Air Conditioning (HVAC) Technology.

Preparation of the Surface

To ensure good adhesion, the surface Flex+Bond Liquid will be applied to must be clean and free of greases or oils. Surface contaminants like dust or dirt can be removed with general cleaners (or Weicon Surface Cleaner). For heavily soiled surfaces, Weicon Cleaner S or Weicon Gasket Remover may be more suitable.

Most types of materials can be bonded to with Weicon Flex+Bond Liquid. That said, for certain materials (such as low surface energy plastics like polyethylene or PTFE) or extreme requirements the use of a primer may be necessary. More information on these is available from Swift Supplies. Alternatively, (and for very smooth surfaces) a mechanical surface pre-treatment (e.g. sanding or sand-blasting) can considerably improve adhesion.

Application

Flex+Bond Liquid can be squeezed out by hand. Ensure that you close the tube again immediately after use. Opened tubes should be used as quickly as possible.



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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.

Date Created: 7/6/2018

Date Modified: 7/6/2018

Document # SSD-TDS-SWP000235

Technical Details

Properties

Basis	One Part MS Polymer
Colour	White
Viscosity	7,000
Density	1.46 g/cm ³
Cure Type	Interaction with Humidity
Processing Temperature	+5°C to +40°C
Curing Temperature	+5°C to +40°C 30% to 95% Relative Humidity
Skin-Over Time*	40 Minutes
Cure Speed (first 24 hours)	2-3mm
Volume Change (DIN 52451)	-9%
Gap Fill Max. Depth	10mm
Gap Fill Max. Width	25mm
Shore Hardness (DIN 5355 / ASTM D 224)	43 Shore A (±5)
Elongation at Break (DIN 53504 / ASTM D 2240)	400% (±5)
Tensile Strength of Sealant	2.2 N/mm ²
Average Tensile Shear Strength (DIN 53283 / ASTM D 12)	1.8 N/mm ²
Tear Strength (DIN 53515 / ASTM D 1002)	11 N/mm ²
Max. Movement Capacity	10%
Temperature Resistance (Continuous)	-40°C to +80°C
Temperature Resistance (Short-Term, 2 Hour Max.)	+120°C
Paintable (Liquid Paint)	After complete curing.
Building Material Category (DIN 4102)	B 2
Shelf Life (Stored at +5°C to +25°C)	12 Months

Storage

When stored unopened and in normal climatic conditions (23°C and 50% relative humidity) Weicon Flex+Bond Liquid has a minimum shelf-life of 12 months.

Available Sizes

Weicon Flex+Bond Liquid is available from Swift Supplies in 85ml squeeze tubes.

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