



ADHESIVES & SEALANTS



Weicon Flex 310 M HT 200

Weicon Flex 310 M HT 200 is a specialised grade of elastic MS Polymer adhesive that has been designed for high temperature applications. HT 200 withstands 45 minutes of exposure up to 180°C and 30 minutes of up to 200°C. This capability has led to HT 200 being widely used for bonding and sealing parts that will need to be thermal or powder coated. It is free of silicones, halogens and solvents.

Features

- Outstanding temperature resistance
- Excellent aging stability and UV resistance
- Sandable (after curing)
- Resistant to fresh and salt water
- Can be painted over immediately (wet in wet)
- Free of silicone and solvents (neutral curing)
- Grey in colour to matches metal components

Applications

- Bonding and sealing metal components that are to be powder or thermal coated
- Ventilation and air conditioning systems
- Container and tank construction
- Wagon and vehicle construction and repairs
- Applications where silicones or adhesives containing silicones are not permitted.

Properties

Basis	1 K – MS Polymer
Density	1.41 g/cm ³
Viscosity	Pasty
Stability/Run-Off ASTM D 2202	<1mm
Processing Temperature	+5°C to 35°C
Curing Conditions	+5°C to 40°C and 30% to 95% Relative Humidity
Skin-Over Time	10 min.
Cure Speed (first 24 Hours)	3-4mm
Shelf Life (+5°C to 25°C)	12 Months
Shore Hardness A (DIN 53505 / ASTM D 2240) ± 5	55
Elongation at Break (DIN 53504 / ASTM D 412)	400%
Tensile Strength of the Pure Adhesive/Sealant	3.2 N/mm ²
Average Tensile Shear Strength (DIN 53283)	2.1 N/mm ²
Tear Strength (DIN 53515 / ASTM D 624)	21 N/mm ²
Temperature Resistance	-40°C to +90°C (Continuous) Up to 180°C for 45 Minutes Up to 200°C for 30 Minutes
Overpaintable (liquid paint)	Only using "wet in wet" within 3 hours (max.) after material application.
Thermal Coating / Powder Coating	After Complete Cure
Building Material Category (DIN 4102)	B 2

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Phone: 1300 098 060

Important

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Flex 310 M HT 200 Chemical Resistance After Curing

Acetic Acid (<5%)	+	Ketones	-
Acetone	-	Lyes (diluted)	+
Alcohol	O	Methanol	-
Ammonia (10%)	+	Methyl Ethyl Ketone	-
Antifreeze	+	Motor Oil (Mineral and Synthetic) +140°C	-
Caustic potash solution (20%)	O	Motor Oil (Mineral and Synthetic)	-
Citric Acid (10%)	-	Naphtha	-
Concentrated Formic Acid	-	Nitric Acid (5%)	-
Concentrated Phosphoric Acid	-	Paint Thinner	-
Concentrated Silicon Oil	+	Paraffin Oil	-
Cooling Lubricant (Water Dilutable)	+	Petrol (92 to 100 octane)	-
Diesel / Heating oil	-	Phosphoric Acid (5%)	-
Edible Oil / Vegetable Oil	O	Salt Water / Sea Water	+
Ethanol	-	Sodium Hydroxide Solution (20%)	-
Freon	-	Sulphuric Acid (5%)	-
Gear Oil	-	Toluene	-
Glycerine (glycol)	+	Water	+
Glycol Ether	-	Water (90°C)	+
Hydraulic Oil	O	Xylem	-
Hydrochloric Acid (5%)	-		
Hydrogen Peroxide (3%)	+		

+ = Resistant

O = Resistant for a Limited Time

- = Not Resistant

Preparation of the Surface

The surface to which Flex 310 M HT 200 will be applied must be clean and grease-free. Many surface contaminants (e.g. oil, dust and dirt) can be removed with Weicon Surface Cleaner. For heavily soiled surfaces we suggest Weicon Cleaner S Spray. Weicon Sealant and Adhesive Remover is suitable for removing old paint or adhesive residues.

Most materials can be bonded well to themselves and among each other. For certain materials or extreme requirements, we suggest the use of an adhesion agent or primer. More information on these are available from Associated Gaskets. Alternatively, a mechanical surface pre-treatment (e.g. sanding or sand-blasting) can considerably improve adhesion.

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Processing

Flex 310 M HT 200 is supplied in cartridge form and should be applied using a cartridge gun or automatic dosing system.

Joining the parts being bonded

To ensure optimum wetting, the parts must be joined before the first skin has formed on the adhesive (skin-over time).

Curing

All Weicon elastic one part adhesives and sealants cure by reacting with humidity in the surrounding environment. The curing process starts at the surface of the adhesive and proceeds inwards from there. At 50% relative humidity and 23°C, the cure speed is approximately 3mm in the first 24 hours.

Adhesive bonds of large surfaces and high layer thicknesses cure more slowly as the humidity cannot penetrate as quickly towards the inside of the adhesive if the outer layers have already cured. Higher temperature and/or higher humidity accelerates curing while lower temperatures and/or lower humidity slows it down.

Storage

When stored unopened and in normal climatic conditions (23°C and 50% relative humidity) Weicon Flex 310 M HT 200 has a minimum shelf-life of 12 months.

Availability

Weicon Flex 310 M HT 200 is available in 310ml cartridges.

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