

Gasket Maker is a special type of adhesive sealant manufactured by Weicon in Germany. Available in either Black or Red, this high-quality room-temperature vulcanising (RTV) adhesive cures at room temperature. It can be applied directly to the sealing face and will form a good, long-lasting seal once the two faces are joined.

High Temperature Resistance.

Our Gasket Maker has very good resistance to temperature. Once it's cured, it can handle continuous exposure to environments between -40°C and +280°C. It will also tolerate short-term spikes (anything up to 2 hours) up to +300°C.

[View This Product](#)**Works with Most Flange Surface Types.**

Gasket Maker bonds well to steel, aluminium, glass, ceramic and many other materials. It can struggle a bit with some types of low-surface energy plastics (e.g. HDPE). For these, the use of a primer to enable adhesion is suggested.

Permanently Elastic for Long Lasting Performance.

Gasket Maker remains permanently elastic once cured. This is particularly important for making good quality seals on joints likely to experience ongoing vibration or thermal shrinkage and expansion. As this occurs, less elastic adhesive seals may lose their bond and compromise joint integrity. Gasket Maker's permanently elastic nature allows the bonds to be maintained.

Gasket Maker will have a maximum elongation of 500%. Depending on the colour (there's some slight technical differences), cured Gasket Maker will have a Shore A hardness of 35 (Red) or 30 (Black). Both colours have good pressure resistance and are ageing resistant.

Very Good Compatibility with Many Fluids.

Oil, grease, water and many other types of fluids are no problems for Gasket Maker. This quality gasket sealant has good compatibility with all of these as well as many more.

Applications

- Oil sump sealing.
- Gearbox sealing.
- Tank sealing, construction and repairs.
- Sealing and bonding valve and casing covers.
- Water pump sealing.
- Automotive, aerospace and marine bonding and sealing.
- Gear and axle sealing.
- Flange sealing.

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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Preparation of the Surface

To ensure good adhesion, the surface Gasket Maker 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 Gasket Maker. 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

Cartridges (310ml) of Gasket Maker should be applied using a cartridge gun or automatic dosing system. Squeeze packs can be applied by hand. To ensure optimum wetting and therefore adhesion to the surfaces, the parts being bonded must be joined before the first skin has formed on the adhesive. 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.

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Technical Details

Properties

Colour	Red	Black
Basis	One Part Acetate Silicone	
Viscosity	Pasty	
Density	1.28 g/cm ³	1.06 g/cm ³
Curing Method	Interaction with Humidity (RTV)	
Processing Temperature	+5°C to +35°C	
Curing Temperature	+5°C to +40°C	
	30% to 95% Relative Humidity	
Skin-Over Time	12 Minutes	7 Minutes
Cure Speed (first 24 hours)	2-3mm in the first 24 Hours.	
Volume Change (DIN 52451)	-1%	-3%
Gap Fill Max. Depth	5mm	
Gap Fill Max. Width	25mm	
Shore Hardness (DIN 53504 / ASTM D 412)	35 Shore A	30 Shore A
Elongation at Break (DIN 53504 / ASTM D412)	500%	
Tensile Strength of Sealant	2 N/mm ²	
Max. Movement Capacity	15%	
Temperature Resistance (Continuous)	-50°C to +280°C	
Temperature Resistance (Short-Term, 2 Hour Max.)	+300°C	
Paintable (Liquid Paint)	No	
Building Material Category (DIN 4102)	B 2	
Shelf Life (Stored at +5°C to +25°C)	12 Months	

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Weicon Gasket Maker Chemical Resistance After Curing

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

+ = Resistant

O = Resistant for a Limited Time

- = Not Resistant

Storage

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

Available Sizes

Weicon Gasket Maker is available from Swift Supplies in 310ml cartridges in either Red or Black.

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