

WEICON Easy-Mix HT 180 Epoxy Adhesive



High temperature resistance | steady | shock- and impact resistant

WEICON Easy-Mix HT 180 is a 2-component adhesive based on epoxy resin with high temperature resistance up to +180 °C (+356 °F); short-term up to +230 °C (+446 °F). The adhesive is highly viscous and stable which also makes it suitable for vertical applications. It is impact- and shock-resistant, has a long pot life, cures at room temperature and is machinable after curing. The adhesive is particularly suitable for the bonding of composite materials and metal and can be spot-welded while curing. Easy-Mix HT 180 can also be used on plastics, ceramics, glass, stone or wood and is suitable for adhesions where larger tolerances have to be bridged. Due to special fillers, it is possible to achieve a non-varying and reliable adhesive joint of at least 0.20 - 0.25 mm. The high temperature resistance enables the bonding of components, which are thermo-coated (powder-coated) after curing.

Characteristics

Base	Epoxy resin, mineral-filled
Texture	pasty, gap-filling
Colour	black
Minimum shelf life	at room temperature

Processing

Processing temperature	+10 °C to +40 °C
Curing temperature	+10 °C - +50 °C
Mixing ratio by weight	2:1
Density of the mixture	1,1 g/cm ³
Gap bridging up to max.	4 mm

Curing

Pot life	at 20 °C, 10 ml batch	60 min.
Handling strength	(35 % strength)	120 min.
Working strength after	(50 % strength)	4 h
Final strength	(100 % strength)	24 h
Shrinkage		0,3 %

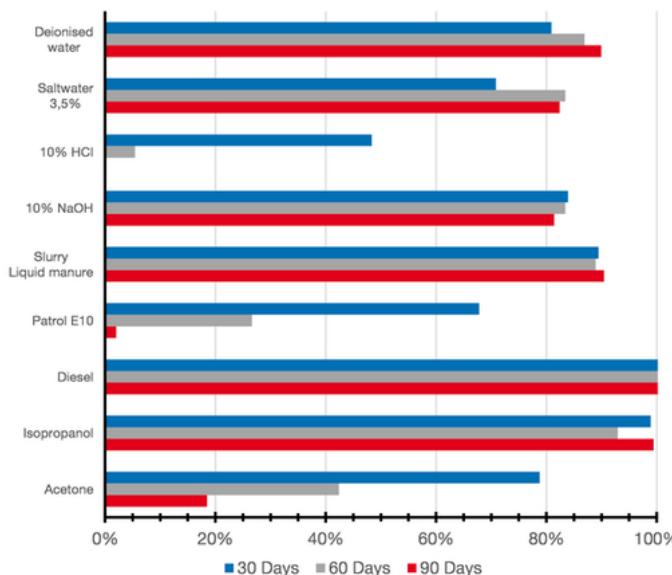
Note

The specifications and recommendations given in this technical data sheet must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do guarantee the continuously high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.

WEICON Easy-Mix HT

180 Epoxy Adhesive

Tensile strength after storage



Surface Pre-Treatment

Clean and dry bonding surfaces are essential for flawless adhesive bonding (e.g. cleaning and degreasing with WEICON Surface Cleaner).

Application

WEICON Easy-Mix products can be processed straight from the double cartridge by means of the included static mixer. Dismiss the first 5 cm of the adhesive bead. The adhesive is applied to just one side. The specified pot life refers to a material batch of 10 ml at room temperature. Larger batch quantities will result in faster curing. Higher temperatures also reduce the pot life and curing time. (General rule: every increase by +10 °C above room temperature results in a decrease of the pot life and curing time by half). Temperatures below +16 °C increase the pot life and curing time significantly. From approx. +5 °C and below, no reaction takes place.

Storage

WEICON epoxy adhesives should be stored in a dry place at room temperature. Unopened containers can be stored at temperatures from +18 °C to +25 °C. Protect from direct sunlight. Failure to observe these storage instructions will reduce the shelf life to 6 months. Epoxy resins generally tend to crystallise at temperatures below +5 °C. This effect is increased by large temperature fluctuations, e.g. during transport especially in the winter months. This has a negative impact on processing, curing and technical data, can, however, be reversed by heating the product (up to max. +50 °C, no open flame). In WEICON epoxy adhesives, crystallisation is reduced by the careful choice and combination of base resins (bisphenol A and F).

Scope of delivery

Adhesive | Helix Mixing Nozzle A

Accessories

- 10005237 Dispenser Easy-Mix D 50, 1 PCE
- 10101999 WEICON Manual Dispenser, 1 x 1:1 | 2:1
- 10026925 Helix Mixing Nozzle A, 1 PCE, white

Conversion table

(°C x 1.8) + 32 = °F	Nm x 8.851 = lb·in
mm/25.4 = inch	Nm x 0.738 = lb·ft
µm/25.4 = mil	Nm x 141.62 = oz·in
N x 0.225 = lb	mPa·s = cP
N/mm² x 145 = psi	N/cm x 0.571 = lb/in
MPa x 145 = psi	kV/mm x 25.4 = V/mil

Available sizes

- 10044884 WEICON Easy-Mix HT 180 Epoxy Adhesive, 50 ml, black

To the product detail page:



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