Adhesives & Sealants

Weicon Easy-Mix S 50 Yellow Epoxy Adhesive

Weicon Easy-Mix S 50 yellow is a highly reactive casting compound, which can also be used as an adhesive due to its high adhesive strength and fast cure. This epoxy resin system is viscous, self-levelling and possesses high impact and shock resistance. The compound adheres well to a wide variety of surfaces including metals, plastics, fibreglass-reinforced plastics, wood, glass, ceramic and stone. S 50 casting compound can be used in electrical engineering for protecting electronic components, semiconductors and building components. It protects against moisture, dust and dirt, as well as mechanical stresses. Due to its distinctive yellow colour, Easy-Mix S 50 facilitates visual control and is commonly used in electrical and electronics manufacturing for casting and grouting applications.

Technical Data:

Base	Epoxy Resin, Non Filled
Texture	Viscous
Colour	Yellow
Mixing Ratio	1 : 1
Density of the mixture	1.2 g/cm^3
Viscosity of the mixture at 20°C	8,500 mPa•s
Adhesive gap bridging up to max.	2mm
Processing Temperature	10ºC to 30ºC
Curing Temperature	6ºC to 40ºC
Handling Strength, 35% strength	after 30 minutes
Bearing of mechanical loads, 50% strength	after 1 hour
Final Strength, 100%	after 24 hours
Medium strength of the pure epoxy resin according to DIN EN 1465:	
Pressure	9 Mpa
Pull	40 Mpa
Bending	58 Mpa
E-Modul	2,000 – 2,500 Mpa
Hardness	65 Shore D
Medium Shear Strength according to DIN EN 1465:	
Steel, Sandblasted	20 N/mm^2
Aluminium, Sandblasted	19 N/mm^2
PVC, Hard Roughened	13 N/mm^2
Linear Shrinkage	2%
Temperature Resistance	-50ºC to 80ºC
Thermal Conductivity	0.24 W/m•K
Specific Heat Capacity	1.482 J/(g•K)
Resistivity	1.03 • 10^11 Ωm

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Important
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Surface Pre-treatment and Processing:

Clean and dry surfaces prior to bonding. Weicon Surface Cleaner is recommended. Weicon Easy-Mix can be processed straight from the double cartridge by using the mixing nozzle. Discard the first 50mm of the adhesive bead then apply the adhesive to one side only. Pot life of 4 - 5 minutes for 10ml of material at 20ºC. Higher temperatures will reduce the pot life. Larger batch quantities will result in faster curing. Temperatures below +16 °C increase the pot life and curing time significantly. Temperatures from +5ºC and below, no reaction takes place.

Availability:

Weicon Easy-Mix S 50 Yellow is available in 50ml double cartridges. Easy-Mix dispensing guns are also available.

Associated Gaskets also stock a large range of thermal insulation as well as specialised sealing and electrical products. For more information on these products and many more, please visit our website or call your nearest AG branch.

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