

Easy-Mix S 50 yellow



visually identifiable casting compound | resistant to high temperatures | fast-curing | impact-resistant

WEICON Easy-Mix S 50 yellow is a highly reactive casting compound. It can also be used as an adhesive owing to its high adhesive strength and short curing time. The epoxy resin system, which is resistant to high temperatures of up to +180 °C, is viscous, self-leveling, cures quickly and is impact-resistant in its hardened state. The casting compound has a short pot life of 4-5 minutes. The compound adheres excellently to many different surfaces, such as metal, plastics, fiberglass-reinforced plastics, wood, glass, ceramics and stone. The casting compound can be used in electronic engineering for protecting electronic components, semiconductors and building components. It protects components against moisture, dust and dirt as well as mechanical stresses. Easy-Mix S 50 yellow is suitable for applications in many different areas, such as grouting work in electrical engineering and the electronics industry, for casting cable connections, for applications in insulating technology, in metal construction, in tank and apparatus construction, fittings construction, and in ventilating and air-conditioning systems. Thanks to its distinctive yellow colour, Easy-Mix S 50 yellow makes visual control simple. The casting compound is processed with the user-friendly Easy-Mix system.

The Dispenser Easy-Mix D 50 is required for processing Easy-Mix products in 50 ml cartridges.

Characteristics

Base	Epoxy
Filler	unfilled
Texture	liquid
Colour	yellow
Minimum shelf life	at room temperature
	18 mon.

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 Middle East L.L.C.
United Arab Emirates
phone +971 4 880 25 05
info@weicon.ae

WEICON Inc.
Canada
phone +1 877 620 8889
info@weicon.ca

WEICON Czech Republic s.r.o.
Czech Republic
phone +42 (0) 417 533 013
info@weicon.cz

WEICON Iberica S.L.
Spain
phone +34 (0) 914 7997 34
info@weicon.es

WEICON GmbH & Co. KG
(Headquarters) Germany
phone +49 (0) 511 9322 0
info@weicon.de

WEICON Italia S.r.l.
Italy
phone +39 (0) 010 2924 871
info@weicon.it

WEICON Romania SRL
Romania
phone +40 (0) 3 65 730 763
office@weicon.com

WEICON SA (Pty) Ltd
South Africa
phone +27 (0) 21 709 0088
info@weicon.co.za

WEICON South East Asia Pte Ltd
Singapore
Phone +65) 6710 7671
info@weicon.com.sg

WEICON Kimya Sanayi Tic. Ltd. Şti.
Türkiye
phone +90 (0) 212 465 33 65
info@weicon.com.tr

Processing

Processing temperature	+15 °C to +40 °C
Component temperature	>3°C above dew point
Cure temperature	+6 °C to +40 °C
Relative air humidity	max. 85%
Mixing ratio by volume	1:1
Viscosity of the mixture	at +20 °C
Density of the mixture	4.500 mPa·s
Gap bridging up to max.	1,2 g/cm³
	2 mm

Curing

Pot life	at 20 °C, 10 g batch	4-5 min.
Handling strength	(35 % strength)	17 min.
Working strength after	(80 % strength)	30 min.
Final strength	(100 % strength)	24 h
Shrinkage		1,06 %

Mechanical properties after curing

- Measured after curing at	24 h RT + 24 h 60 °C
Tensile strength	DIN EN ISO 527-2
Elongation at break (tensile)	DIN EN ISO 527-2
E-modulus (tensile)	DIN EN ISO 527-2
Compressive strength	DIN EN ISO 604
Bending strength	DIN EN ISO 178
Hardness (Shore D)	DIN ISO 7619
Lap shear strength material thickn. 1,5mm DIN EN 1465	
Steel 1.0338 sandblasted	21 N/mm²
Stainless steel V2A sandblasted	23 N/mm²
Aluminium sandblasted	12 N/mm²
Galvanized steel	13 N/mm²
PVC-rigid roughened	13 N/mm²

Thermal parameters

Temperature resistance	-50 °C to +180 °C (-58 °F to +356 °F)
Thermal conductivity	DIN EN ISO 22007-4
Heat capacity	DIN EN ISO 22007-4

Electrical parameters

Resistance	DIN EN 62631-3-1	1,03·10¹¹ Ω·m
Dielectric strength	DIN EN 60243-1 (20°C)	20 kV/mm
Magnetic		no

Approvals / Guidelines

ISSA Code	75.629.51
IMPA Code	812975
MIL-Spec	complies with MIL-T-83523

Instructions for use

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

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.

Easy-Mix S 50 yellow

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 | Quadro Mixing Nozzle A

Accessories

10005237 Dispenser Easy-Mix D 50, 1 PCE
10101999 WEICON Manual Dispenser, 1 x 1:1 | 2:1
10005236 Quadro Mixing Nozzle A, 1 PCE, blue
10068261 Dosing Tip, 1 PCE

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

10017543 Easy-Mix S 50 yellow, 50 ml, yellow

To the product detail page:



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 Middle East L.L.C.
United Arab Emirates
phone +971 4 880 25 05
info@weicon.ae

WEICON Inc.
Canada
phone +1 877 620 8889
info@weicon.ca

WEICON Czech Republic s.r.o.
Czech Republic
phone +42 (0) 417 533 013
info@weicon.cz

WEICON Ibérica S.L.
Spain
phone +34 (0) 914 7997 34
info@weicon.es

WEICON GmbH & Co. KG
(Headquarters) Germany
phone +49 (0) 251 9322 0
info@weicon.de

WEICON Italia S.r.l.
Italy
phone +39 (0) 010 2924 871
info@weicon.it

WEICON Romania SRL
Romania
phone +40 (0) 3 65 730 763
office@weicon.com

WEICON SA (Pty) Ltd
South Africa
phone +27 (0) 21 709 0088
info@weicon.co.za

WEICON South East Asia Pte Ltd
Singapore
Phone (+65) 6710 7671
info@weicon.com.sg

WEICON Kimya Sanayi Tic. Ltd. Şti.
Türkiye
phone +90 (0) 212 465 33 65
info@weicon.com.tr