

Flex+bond®



Highly elastic | strong | ISEGA-certified

WEICON Flex+bond is strong, permanently elastic, temperature-resistant from -40 °C to +90 °C (-40 °F to +194 °F), weather-resistant, resistant to UV rays, paintable (wet-on-wet), sandable and resistant to ageing and salt water. It is free of silicone, isocyanate, halogens and solvents. Flex+bond has an ISEGA certificate and can be used as an adhesive in the food technology.

Flex+bond can be used to bond nearly all materials such as metal, wood, plastic, glass, and ceramics. WEICON Flex+bond can be used in many areas of industry.

Characteristics

Base	1C MS-polymer	
Texture	pasty	
Cure type	moisture-curing	
Can be painted	only "wet into the wet" within 3 h at the latest	
Stability/run-off	ASTM D 2202	1.0 mm
Building material class	DIN 4102	B 2
Minimum shelf life	at room temperature	18 mon.

Processing

Curing condition	from +5 °C to +40 °C and 30% to 95% rel. air humidity	
Curing speed	in the first 24 h	2 -3 mm
Density	1,44 g/cm³	
Max. sealing joint width	25 mm	
Gap bridging up to max.	5 mm	

Mechanical properties after curing

Tensile strength	ISO 37	3,3 N/mm²
Tensile strength of the pure adhesive and sealant	ISO 37	3,3 N/mm²
Elongation at break (tensile)	DIN 53504/ASTM D412	650 / 300 (#13353085) %
Tear resistance	DIN 53515 / ASTM D 1002	20 kN/m
Hardness (Shore A)	DIN ISO 7619	42±5
Shear strength according to DIN EN 1465		
Medium lap shear strength (DIN EN 1465/ ASTM D 1002)	2,1 N/mm²	
Volume change	DIN 52451	-1 %

Thermal parameters

Temperature resistance	-40 °C to +90 °C	
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Electrical parameters

Resistance	2.3 mm layer thickness	1,0 x 10 ¹⁰ Ω·m
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Approvals / Guidelines

ISSA Code	75.509.41
IMPA Code	81 52 87

Surface Pre-Treatment

Surfaces must be clean and free of grease. Many surface soiling, such as oil, grease, dust and dirt can be removed with WEICON Surface Cleaner. For heavily soiled metal surfaces, we recommend Cleaner Spray S; for removing old colour residues or adhesive residues, WEICON Sealant and Adhesive Remover is ideal. Most materials can be bonded to and among each other. For certain materials or special requirements, we recommend the use of a bonding agent (primer). Mechanical surface pre-treatment e.g. by grinding or sanding can also improve the adhesion considerably.

Application

Hook the tube key centrally onto the clip of the mini tube-shaped bag. Remove the securing tab. Then continue to twist the lid – this will cut open the mini tube-shaped bag. Open the closure and dispense the material by turning the tube key.

Joining the components

For the best adhesion, the components must be joined before the first skin has formed on the adhesive (skin formation time*).

*coloured: 25 min, transparent: 10 min.

Storage

Store in the unopened original container at room temperature. Avoid sources of heat and direct sunlight.

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.

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.

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Flex+bond®

Accessories

10025241	V-Joint Nozzle, 1 PCE
10059792	Pressure gun Airflow 3, 1 PCE
10020751	Cartridge Gun Special, 1 PCE
10000441	Cartridge Gun, 1 PCE
10101992	Clip Nozzle Green Tube, 1 PCE, transparent

Available sizes

10012994	Flex+bond®, 85 ml, white
10012995	Flex+bond®, 85 ml, grey
10014356	Flex+bond®, 85 ml, black
10018364	Flex+bond®, 85 ml, transparent

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