

# 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.

### Technical Data

Base	1 C. polyoxypropylene	
Texture	pasty	
Paintable	only "wet into the wet" within 3 h at the latest	
Cure type	moisture-curing	
Stability/run-off	ASTM D 2202	1.0 mm
Density	1,44 g/cm <sup>3</sup>	
Curing condition	from +5°C to +40°C and 30% to 95% rel. air humidity	
Processing temperature	+5°C to +40°C	
Curing speed	in the first 24 h	2 -3 mm
Skin-over time	25 min.	
Gap bridging up to max.	5 mm	
Max. sealing joint width	25 mm	
Tensile strength	ISO 37 / S3A	3,3 N/mm <sup>2</sup>
Tensile strength of the pure adhesive and sealant	ISO 37	3,3 N/mm <sup>2</sup>
Elongation at break (tensile)	DIN 53504/ASTM D412	650 / 300 (#13353085) %
Medium lap shear strength (DIN EN 1465/ASTM D 1002)	2,1 N/mm <sup>2</sup>	
Tear resistance	DIN 53515 / ASTM D 1002	20 kN/m
Volume change	DIN 52451	-1 %
Hardness (Shore A)	DIN ISO 7619	42±5
Temperature resistance	-40°C to +90°C	
Resistance	2.3 mm layer thickness	1,0 x 10 <sup>10</sup> Ω·m
Building material class	DIN 4102	B 2

### 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.

### Processing

#### Processing tube

Squeeze out by hand, close tube again immediately after use, opened tubes should be used up as quickly as possible

#### Processing Presspack

Remove tamper-evident seal. Regulate discharge by smooth turning of the cap from min. to max. Press the lever and process the medium. After having turned the cap into the "min." position the valve closes automatically and the product flow is stopped.

#### 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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## Joining the components

In order to guarantee and ideal wetting, the bonding parts need to be joined, before the adhesive skins over (skin-over time\*).

\*coloured: 25 min., transparent: 10 min.

## Storage

When unopened and stored in normal climate (+23 °C and 50 % rel. air humidity), Flex+bond® has a shelf life of 18 months.

## 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.

## Accessories

- 10025241 V-Joint Nozzle, 1 PCE
- 10033114 Compressed Air Cartridge Gun, 1 PCE
- 10020751 Cartridge Gun Special, 1 PCE
- 10000441 Cartridge Gun, 1 PCE

## Available sizes

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

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