

Plastic-Bond



excellent adhesion on plastics
high strength
shock and impact resistant

WEICON Plastic-Bond is a solvent-free structural adhesive with very good adhesion to plastics, aluminum, steel and much more. The adhesive is suitable for static as well as dynamic loads, has a high impact and peel strength and a maximum gap filling capacity of 5 mm.

Plastic-Bond is particularly suitable for structural bondings where high strength connections are required. It has a high viscosity and is suitable for processing on vertical surfaces.

The structural adhesive is universally applicable and can be used, for example, in plastics technology, in metal construction, in car body and vehicle construction, in mechanical engineering, in electrical engineering, in wood processing or in construction works at exhibitions.

Technical Data

Composition	Methyl methacrylate
Mixing ratio resin / hardener	1 : 1
Density of the mixture	0,98 - 1,02 g/cm ³
Colour after curing	cream white, milky
Pot life at +20°C	approx. 15 Min.
Viscosity of the mixture	40.000 - 60.000 mPa·s
Handling strength (35%) after	approx. 40 Min.
Mechanical loads (50% strength) after	approx. 60 Min.
Final strength (100%) after	approx. 12 Std.
Adhesive gap bridging	0,1 - 5,0 mm

Average strength (+20°C) acc. to DIN 1465

at FVK	GRP 9 N/mm ²
acrylic	18 N/mm ²
stainless steel	17 N/mm ²
Aluminium	21 N/mm ²
Steel bright	19 N/mm ²
plastic	PVC 17 N/mm ²
Shore hardness D DIN EN ISO 868	70
Average E-module +20°C)	1.400 - 1.700 N/mm ²
Tensile strength ISO 527 max.	20 N/mm ²
Tensile Extension ISO 527 max.	35 %
Temperature resistance	-55 to +125 °C

Surface pretreatment

The prerequisite for perfect adhesion are clean and dry surfaces (e.g. cleaning and degreasing with WEICON Cleaner Spray S or WEICON Plastic Cleaner). The best results are achieved when the surfaces to be bonded are mechanically roughened. The adhesive is applied only on one side.

Processing

Plastic-Bond can be processed directly from the double cartridge. Reject the first centimetre of the dosed bead. Mix the product thoroughly. Apply adhesive mixture quickly to only one of the surfaces to be bonded. Join both surfaces immediately afterwards.

Storage

The shelf life is 12 months when stored unopened at a normal climate (+23°C and 50 % rel. humidity).

Safety and health

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

Available sizes:

10565024 Plastic-Bond 24 ml

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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