TECHNICAL DATA SHEET

Bond and Seal structural adhesive

Art. no. 0890 100 1
P. Qty.: 1 / 12 / 24

Elastic PU adhesive and sealant for a wide range of applications

Outstanding adhesive strength on a wide range of materials and surfaces such as aluminium, stainless steel, steel, copper, brass, zinc, painted surfaces, wood, MDF, HPL, decorative boards and chipboard, cement fibreboards, cork, stone, synthetic stone, gypsum, gypsum plasterboard, aerated concrete, concrete, clay brick, sand-lime brick, glass, porcelain, ceramic, hard foams and plastics (GFRP/CFRP, ABS, polyamide, polycarbonate, polyester, PMMA and hard PVC). Please refer to the optimisation table.

Not suitable for PE, PP, PTFE, silicone, rubber, neoprene, polystyrene, marble, bituminous substrates and softened plastics.

Contents	300 ml
Container	Cartridge
Chemical basis	Single component polyurethane
Colour	White
Max. skin-formation time	60 min
Min./max. skin-formation time	45-60 min
Smell/fragrance	Characteristic
Density/conditions	1.25 g/cm³/prior to hardening, DIN 53479
Min. skin-formation time	45 min
Shore hardness A/conditions	40/in accordance with DIN 53505
Full curing speed/conditions	3 mm/d/23 °C and 50% relative humidity, moisture curing
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-40 to +90 °C
Short term temperature resistance max./conditions	120 °C/after 8 hours
Min. tensile strength	1.8 N/mm²
Min. combined tension and shear resistance	1 N/mm²
Conditions for tensile strength	in accordance with DIN 53504
Min. longitudinal resistance to tearing	6 N/mm

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Conditions for resistance to tearing	in accordance with DIN 53515
Elongation at break/conditions	500 %/in accordance with DIN 53504
Max. change in volume	-5 %
Glass transition temperature/conditions	-45 °C/in accordance with DIN 53445
Short-term resistance against	Fuels, Mineral oils, Animal fat, Animal oils, Vegetable fat, Vegetable oils
Shelf life from production/conditions	12 Month/at 10°C to 25°C
Silicone-free	Yes

Application area

- For a range of bonding and sealing tasks
- Suitable for adhering and sealing in food processing plants
- For the permanently elastic sealing of spot weld seams

Application information

The application surfaces must be clean, dry and free of grease. The optimum temperature for the substance and material is between 15°C and 25°C.
Depending on the material and specification in the optimisation table, pre-treat with Activating Cleaner (art. no. 0890 100 60) or IPA Cleaner (art. no. 0893 223 500, 0893 223 505), as well as Primer for Metal (art. no. 0890 100 61), Primer for Plastic/Wood/Stone (art. no. 0890 100 62), Deep-penetrating primer (art. no. 0890 545 10) or Varioprimer safe + easy (art. no. 0890 024 021/0890 024 101).

For more information on preparing material surfaces, refer to the optimisation table below. Carry out preliminary tests where necessary!

Cut the nozzle tip to create the required bead geometry. The adhesive must be applied using a suitable manual, cordless or piston-rod-style compressed-air application gun to ensure a reliable finish. Apply the adhesive in the form of a triangle of beads to ensure an even layer thickness. A minimum adhesive layer thickness of 3 mm is recommended to harness the benefits of thick-coat bonding. Once opened, ensure that all containers are used up within a short period of time.
Non-cured material can be removed using adhesive remover (art. no. 0890 100 63).
Once hardened, it can be mechanically machined and painted over without surface activation.

Proof of performance

ISEGA:
Can be used where food is processed or stored, e.g. for bonding wall and floor areas in food processing companies.
Clearance certificate no.: 46567 U 18

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Notice

- Not suitable for glass groove sealing or adhesive bonding on other transparent materials with risk of UV back reflection.
- Direct exposure to sunlight can result in slight surface yellowing and crack formation.
- Not suitable for expansion joints in construction applications.
- PVC-based paints and paints that dry by oxidation (oil and alkyd resin-based paints) are not suitable for painting over the adhesive.
- The use of Würth sealant smoothing agent can cause yellowing.
- Caution: Contact with solvents or solvent residues should be avoided, in particular during processing and the curing phase. This can lead to permanent damage of the Bond + Seal.
- Caution: In the case of high surface moisture, very wide adhesive bead application, and/or cavities/air pockets created, back-fill foams in the application, there is a risk of bubble formation in the adhesive compound.

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