Technical Data Sheet

Version 06/2026

BondTec MS-HighTack 280 (MS Kleber Tempo)

Product Descripton

Solvent-free one-component adhesive based on hybrid polymer. Vulcanizes under the influence of moisture to form a permanently elastic adhesive.

Standards, tests and specifications

- EN 15651-1: 20HM
- EN 13501: Fire behavior class E
- Particularly high initial adhesion
- Compatible with artificial and natural stone*
- Emicode© EC1^{PLUS} – Very low emissions
- DGNB/ÖGNI: Q4 in line 13
- GISCODE: RS10

Product Properties

- particularly high initial adhesion: approx. 500 kg/m²
- for gluing suitable mirrors
- for waterproof bonds
- can be applied on moist substrates
- with V-seam nozzle for optimal dosing
- fire behavior according to EN 13501-1: class E
- not corrosive to metals
- gluing and sealing with the same product
- vibration-dampening
- high stability
- weather, ageing and UV resistant
- almost odorless
- paintable

*For information on compatibility with natural stone, see the section on installation instructions.

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Areas of Application

Outdoors, artificial and natural stones, facade construction, window sills, steps, signs, roof area, floorings and skirtings, doors, wall coverings, glass mosaic, metal construction, wood construction, plastic construction, kitchen area, tiles, sanitary area, adhesion of mirrors with suitable mirror coating, repair and reconditioning works. Suitable for combination bonding of different materials. For gluing applications where filling and sealing properties are important.

Form of Delivery

Cartridge:	290 ml
Packing unit:	20 pieces per box

Substrates

Suitable substrates:

plaster, concrete, aerated concrete, mortar, masonry, brick, clinker, cement, fiber cement, plasterboard, wood, wood chipboard, lacquered, glazed or impregnated wood, wood fiber boards, aluminum, corrosion-protected metals, copper, zinc, ceramics, tiles, mirror, enamel, stoneware, natural stone, polystyrene, glass, many plastics

Conditionally suitable substrates:

tar and bituminous substrates

Unsuitable substrates:

EPDM, PIB, PTFE, PP, PE, gypsum, silicone

Instructions for Use

The adhesive surfaces must be clean, dry, free from release agents and firm. Dust, grease, oil and loose parts must be removed before processing. We advise to carry out a suitability test for the large number of substrates, building materials and/or coatings used today, especially for plastics, paintings and powder coatings. Tar and bitumen-containing substrates can lead to color changes of the mass and affect the adhesion.

Cut off the cartridge nipple with a sharp knife. Screw the nozzle onto the cartridge and cut it to the desired width. Insert the cartridge into the ejector gun and apply the adhesive in the form of strings or in a punctiform manner, never on full-faced. Cured adhesive can only be removed mechanically or with solvents.

It is necessary to check whether a subsequent application of paint on the adhesive is compatible. Some paints can lead to changes of the color of the glue and affect the adhesion.

For the processing of large quantities in enclosed areas, sufficient fresh air must be provided during the curing time. The material consumption depends on the texture/roughness of the bonding surfaces/substrates. The reaction time depends on temperature as well as air and substrate humidity. The final strength of the bond is achieved after several days. If the substrate is extremely moist or by adding extra moisture, the full hardening is accelerated.

Store cartridges cool and dry. Higher temperatures shorten shelf life.

Processing tool:

We recommend using a high-quality caulking applicator with a minimum trigger ratio of 12:1, e.g. the caulking applicator of the series Irion X7-310, FX7-90, XP Delta or Except-310. Due to the viscous mass using cheap caulking applicators can cause premature muscle fatigue and damage to the tool.

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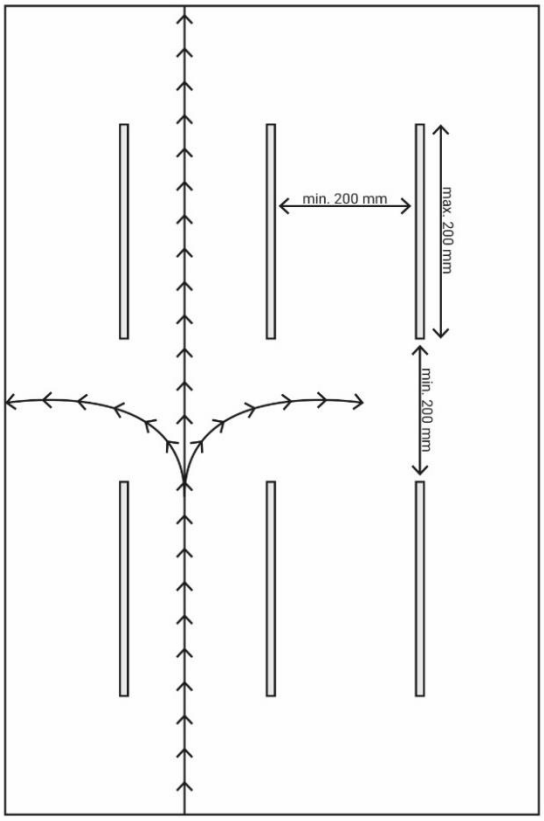
Use as a mirror adhesive:

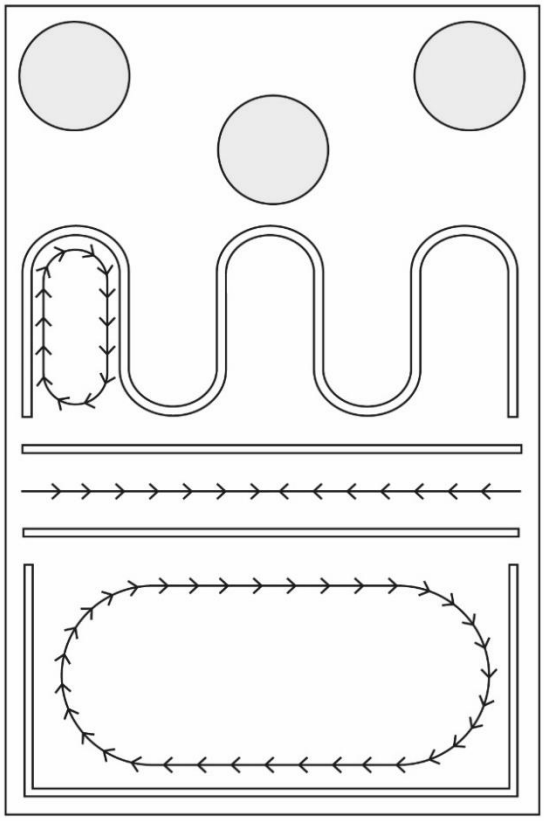
Before application, compatibility between the adhesive, the mirror backing or paint coating, and the material to be bonded must be ensured.

For painted glass, the colour shade, layer thickness, opacity and light transmission of the coating must be taken into account. In the case of coatings that are not fully opaque, adhesive beads — including transparent ones — or mounting tapes may be visible on the viewing side.

The adhesive must not be applied in dots or over the full surface, but in vertical beads. The adhesive beads must be applied in accordance with the following sketch. After pressing the glass or mirror into place, the width of the adhesive beads should not exceed 10 mm. To ensure safe load transfer, a sufficient bonding area must be provided; as a guideline, at least 10 cm² of bonding area per kg of glass or mirror weight is required, unless otherwise specified by the mirror manufacturer



Correct



Incorrect

Adequate rear ventilation must be ensured between the mirror or glass and the substrate. The ventilation gaps must comply with EN 1036 (min. 5 mm). Smaller gaps may only be used in areas without additional moisture exposure and at the installer's own responsibility.

Until sufficient curing has been achieved, the element must be secured against slipping or tilting. The bond may only be subjected to load after sufficient through-curing; for this purpose, a minimum period of 48 hours must be allowed (23 °C, approx. 50–55% RH)

The processing instructions of the mirror manufacturer, ÖNORM EN 1036 – Annex B, and the Technical Guidelines of the Glazing Trade No. 11, Installation of Mirrors, must be observed.

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Natural stone compatibility:
The product BondTec MS-HighTack 280 is generally compatible with natural stone. Internal tests were carried out with marble, sandstone and limestone.

Due to the varying properties of natural stones, particularly with regard to porosity, absorbency, colour and surface finish, discolouration or visual changes in the immediate edge zone may nevertheless occur in individual cases. Particular care is therefore required with open-pored, absorbent or especially sensitive natural stones.

When bonding, the slab thickness and possible translucency of the natural stone must also be taken into account in order to prevent the adhesive or sealant from showing through.

Before application, users must always carry out their own preliminary tests using the original materials. Suitability must be checked in particular with regard to compatibility, adhesion, tendency to discolour and visual appearance.

Technical Data

Characteristics	Standard	Value
Density	EN 1183-1	1.5 ± 0.1 g/cm³
Shore A hardness	EN ISO 868	approx. 60
Fire behavior	EN 13501-1	class E
Skin formation time (normal climate 23/50)		approx. 15 min
Curing (normal climate 23/50, depending on substrate)		approx. 2 mm/day
Tensile load (adhesive strength 0,5 - 1 mm after 3 days)		approx. 2,2 N/mm²
Temperature resistance (cured mass)		-20 to +90 °C
Processing temperature		+5 to +40 °C
Shelf life (dry, at +10 to +25 °C)		12 months

Safety Instructions

Please refer to our safety data sheet and the product label for further information on product safety and handling.

Current safety data sheets and further information on our products can be found at www.insebo.com.

Service

Upon request, our trained sales representatives are always at your disposal.

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Disposal

For disposal instructions please refer to our safety data sheet and product label.

Additional Information

This technical data sheet advises without obligation and guarantee. The mentioned processing instructions have to be adapted to the prevailing conditions. The user is obliged to check the suitability and application by own experiments in order to avoid failures.

All given descriptions, data, ratios, weights, etc. can change without notice and do not represent contractually agreed properties of the product. Existing laws, standards and regulations are to be observed by the recipient of our products in their own responsibility.

Due to the large number of possible influences during processing and application, a guarantee of certain properties or suitability for a specific application can not be made, own tests are necessary.

The right to make technical changes is reserved.

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