Technical data sheet

Gomastit Spiegelkleber

Gomastit Spiegelkleber is an elastic adhesive based on SMP. Adheres mirrors and coated glass perfectly on various construction materials inclusive plastics.

Product advantages

- Simple processing
- Free of solvents, isocyanates and silicones
- Very wide adhesion range
- Odourless
- Chemical neutral polymerisation
- Compatible with paints
- High mechanical strength

Technical data

Chemical base	Silane modified polymer
Mechanism of curing	1 comp. moisture curing
Consistency	stable
Tooling time	max. 10 min.
Curing rate after 24h	≥ 2.0 mm
Curing rate after 48h	≥ 3.0 mm
Shore-A-hardness, DIN ISO 7619-1	60
Tensile strength DIN 53504 S2*	ca. 3.3 N/mm²
Modulus elongation at 100%, DIN 53504 S2 *	ca. 2.3 N/mm²
Elongation at break, DIN 53504 S2 *	ca. 250%
Density	1.54 ± 0.05 g/cm³
Volume change, DIN EN ISO 10563	≤ 8%
Temperature resistance after curing	- 40 °C to + 90 °C
Application temperature	+ 5 °C to + 40 °C

All measurements were performed under normal conditions (23 °C and 50 % relative humidity).

* The data are based on measurements after 3 months.

Application

Bonding of mirrors and one side-coated glass back walls. For universal bonding applications in the construction area.

Substrate range

Highly suitable materials are mirrors, coated glass back walls, metals, powder-coated, painted, anodised, chromated or galvanised surfaces, various plastics, ceramics, stone, concrete and wood. Compatible with polystyrene (EPS/XPS).

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Substrate preparation
To achieve reproductible results the substrate has to be pre-treated according to the state of technology. All undefined surfaces must be removed using suitable methods. Apply the adhesive/sealant promptly to the prepared surface. Depending on the substrate and the expected requirements a mechanical or chemical pre-treatment is recommended respectively cleaning with rubbing alcohol, isopropyl or acetone. For application the surface has to be clean, durable and free of dust, oil and grease. The compatibility with adjacent materials, coatings etc. must be determined in advance.

Adhesion promoter
With most materials a good adhesion is achieved even without adhesion promoter. In the case of high moisture influence we recommend our Adhesion Promoter V40 on non-porous materials, Adhesion Promoter V21 on open porous materials. For thermo-painted or powder-coated surfaces and plastic materials we recommend our Adhesion Promoter V40. Preliminary tests are recommended.

Processing
- Protect against the influence of humidity until the formation of a surface skin
- prime alkaline substrates, e.g. concrete, plaster, masonry, with Adhesion Promoter V21. The Adhesion Promoter serves as a separating layer. Unsealed alkalinity in combination with moisture con lead to damage the back of the mirror.
- Climate materials and mirrors to room climate in order to avoid tensions in the later bond.
- The coating of the mirror or the coated glass back walls shall be covered and must not contain any imperfections. We recommend preliminary tests.
- Observe and comply with the expiry date of all materials used
- Cut the nozzle tip with an opening of about 1 cm
- Apply the adhesive in stripes on the bonding surface. The stripes must be positioned vertically so that the released substances during the curing can escape.
- For mirrors or coated glass rear walls less than 1m high, the distance to the wall should be at least 5mm. For larger surfaces and in damp rooms, the distance to the wall should be al least 5-10mm to ensure sufficient rear ventilation.
- Apply the adhesive stripes parallel to each other at a distance of approx. 20 cm. Briefly interrupt the adhesive stripes after every 20cm.
- The bonding must take place within the processing time
- Depending on the weight of the bonded parts, support for at least 24h is required
- Non-cured adhesive can be removed with rubbing alcohol or isopropyl
- Cured adhesive can only be removed mechanically
- Ceiling reflections or bonding above head height must be secured mechanically.
- Any sealing may only be carried out after the adhesive has fully cured. (approx. after 7 days)
- Please regard the Technical Guideline of Glazier Trade No. 11, installation of mirrors.
- Materials with highly migratory ingredients such as plasticisers or bituminous substrates should be avoided.

Paint compatibility
Due to the diversity of varnishes and paints on the market we recommend preliminary tests. Using paints based on alkyd resins may delay the drying process. If applied on painted or plastered substrates a sufficient drying time of the paint / plaster must be kept (in general 10 days). After cleaning with acetone joints can be varnished at any time.

Chemical resistance
- Good against water, aliphatic solvents, oils, grease, diluted inorganic acids and alkalis
- Moderate against esters, ketone and aromatics
- Not resistant against concentrated acids and chlorinated hydrocarbons

Colours
- grey

Packaging
Cartridges of 310 ml in boxes of 12 units

Shelf life and storage conditions
- 18 months from date of production in original packaging
- Store cool and dry (10 - 25 °C)
- Further information on request

Work and environmental safety
Important information about work and environmental safety is available on the material safety data sheet.

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