



660 SPIEGEL KLEBER RAMSAUER®

DICHTSTOFFE

(Mirror adhesive)

1-component adhesive on a hybrid basis

TECHNICAL DATA

Basis: hybrid adhesive – silane terminated polymers
Shore-A-hardness: ~ 43 (ISO 868)
Skin over time: ~ 12 min.
Elastic recovery: > 60 % DIN EN ISO 7389
Temperature resistance: -40°C to +90° C
Density at 25°C: 1.488 g/cm³ ISO 1183, Method B
Consistency: sag-resistant according to ISO 7390, Profile U20
Volume change during curing: ~ 2 %
Tear strength: ~ 8 N/mm (DIN ISO 34-1)
Elongation at break according to DIN EN ISO 8339: ~ 100 %
Processing temperature: + 5°C to max. + 35°C
Curing rate: 3mm / 24 hours;
Packaging: 290ml-cartridge
Colours: white and grey
Storage life: 12 months in original package when kept in a cool and dry place

CHARACTERISTICS

660 SPIEGEL KLEBER is a ready-for-use 1-component adhesive on an MS-hybrid basis. This neutrally cross-linking adhesive is odourless and virtually does not shrink. 660 SPIEGEL KLEBER does not contain any solvents, silicone or isocyanate. The product adheres to virtually all commercially available mirror coatings without requiring a primer. 660 SPIEGEL KLEBER does not attack the mirror coating, and excels by very high initial adhesive force and fast in-depth curing. The product can be used on moist substrates too.

APPLICATION

660 SPIEGEL KLEBER is suitable for durable gluing of mirrors onto ceramics, glass, wood, concrete, and a variety of metallic and synthetic substrates. Before using the product on



paint-coated or enamel-coated glass or generally on coated glass consult our application engineering department.

MEETS THE REQUIREMENTS OF IVD-INSTRUCTION SHEET

As of the date of publication this Instruction Sheet is available in German only

No. 30: Montageklebstoff für Klebungen und Abdichtungen (Mounting adhesives for gluing and sealing)

PROCESSING

660 SPIEGEL KLEBER adheres to any and all solid and non-absorbent substrates which are free from oil, grease and dust, even without a primer. In case of absorbent substrates apply an insulating film forming primer ("Primer 70"), and take into account its open time. Adhesion and compatibility with different coats and substrates such as paint or enamel coats, plastics, etc. must be tested prior to application or the sealant must be known to be compatible with the respective materials. Never apply 660 SPIEGEL KLEBER in the form of dots, but rather in vertical stripes. Do not damage the protective coating of the mirror. The mirror should be glued onto the substrate

immediately after applying the adhesive. Apply a minimum of four vertical beads of adhesive with a maximum width of 10 mm per square metre of mirror. Additional securing by means of mirror mounting adhesive tape is recommended to support bonding to the substrate. The mirror must be secured in the desired position until the mirror adhesive has cured. At 20°C and a relative humidity of approx. 50 % the mirror adhesive will need approx. 24 hours to reach the required strength. When gluing mirrors take into account the Technical Guidelines of the Glazier's Trade ("*Technische Richtlinien des Glaserhandwerks*") No. 11 Mounting of Mirrors ("*Montage von*



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Spiegeln). As of the date of publication of this data sheet this publication is available in German only.

In case of overhead glue joints additional mechanical mounting is required. For external mirror joints with ceramics,

glass, and metals we recommend our products "Alkoxy 130", "Multiflex 132" and "Fliese 455". With respect to any other type of joints get in touch with our application engineering department.

LIMITATIONS OF APPLICATION

Our information is based on the results of our own experiments with mirrors of renowned manufacturers. Liability that mirrors will not be tarnished can be assumed only subject to the condition that the mirror coating is sufficiently thick (50 µm) and free from damage. Due to the variety of applications and mirror coatings it is recommended to conduct your own experiments.

Antique mirrors require additional mechanical mounting due to the low adhesive strength of the reflective coating.

It is imperative to take into account the expiry date of the product. The curing time increases with the thickness of the layer. Before using the 1-component product in layers with a thickness of more than 15 mm get in touch with our application engineering department.

Before using the mirror adhesive with splinter protection foil or any similar products get in touch with our application engineering department. The product is not suitable for natural stone.

SAFETY ADVICE

Consult the current EC Safety Data Sheet which is available at any time on our website at www.ramsauer.at.

PROTECTION AT WORK AND HEALTH PROTECTION

Avoid swallowing the product and avoid any prolonged or repeated skin contact. Keep out of the reach of children. For more information consult our Safety Data Sheet.

ADVICE FOR APPLICATION

Ensure sufficient ventilation during processing and curing. In view of the large number of factors which may affect processing and application the user must always try the specific application in an experiment before using the product. Take into account the expiry date of the product. Storage and/or transportation of products at increased temperature/air humidity for a prolonged period of time (several weeks) may result in a reduction of storage life and/or changes of

characteristics of the product. Prior to application, the user must make sure that the sealant/adhesive is compatible with the building materials and substances (gaseous, liquid or solid) with which it will be in contact, and that any damage or impairment is ruled out. In order to achieve surface bonding of vapour-proof substrates one adherent surface must be moistened (Attention: avoid the formation of pools).

LIABILITY FOR DEFECTS

The information provided including but not limited to the proposals for processing and using our products is based on our knowledge and experience, usually at the time of going into print. The results of work may deviate from this information depending on the specific circumstances, in particular with respect to substrates, processing and environmental conditions. Therefore, neither this information nor any oral counselling shall constitute warranty or give rise to any liability on whatever legal ground for any specific result

of work, unless we acted intentionally or by gross negligence. Ramsauer warrants that its products will have the technical characteristics according to the Technical Data Sheets up to their expiry date.

Product users must consult the latest data sheet which is available upon request. Our current General Terms and Conditions apply which are available for download on our website www.ramsauer.at.



QUALITY YOU CAN RELY ON

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