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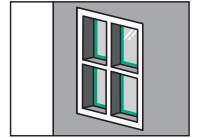


RAMSAUER®

LASTING BONDS.

Handwerk

1-component neutral silicone sealant

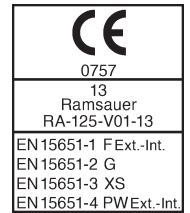


Technical data sheet

Version: 10-2023

Tests:

- DIN EN ISO 15651-1 F25LM Ext.-Int.
- DIN EN ISO 15651-2 G25LM
- DIN EN ISO 15651-3 XS1
- DIN EN ISO 15651-4 PW20LM Ext.-Int.
- Tested for abrasion resistance and striation
- Certificate of compatibility for food areas
- Fulfils the French VOC requirement Class A+



1. Mechanical Properties

Basis	Neutral cure oxime silicone sealant
Skin formation time	~ 6 Min. (23°C/50% relative humidity)
Full curing time	~2.2 mm/24 hours (at +23°C/50% relative humidity)
Density coloured	~ 1.23 (EN ISO 1183-1)
Density transparent	~ 1.02 (EN ISO 1183-1)
Shore A hardness	~ 28 (DIN EN ISO 868)
Volume shrinkage	~ 4.5% (EN ISO 10563)
Tear propagation resistance	~ 6.39 N/mm (ISO 34-1)
Tensile stress at break	~ 0.51 N/mm ² (DIN EN ISO 8339)
Module	~ 0.42 N/mm ² (EN ISO 8339)
Elongation at break	~ 100% (DIN EN ISO 8339)
Resistance to high and low temperatures	-50°C to +150°C (long-term exposure)
Application temperature (substrate, environment)	Lower +5°C, upper +35°C
Admissible total deformation	25%
Colours	As per current colour card
Packaging	310ml cartridge; 400 & 600ml foil bag; industrial container 20-l drum; 200-l drums
Shelf life of cartridges and foil bags	12 months in original packaging in cool and dry storage conditions
Shelf life of industrial container	6 months, cool and dry in sealed original container

2. Properties

125 Handwerk is a neutral cure, permanently elastic silicone sealant which has no corrosive properties. The sealant is resistant to UV radiation, has fungicidal properties and offers very good weathering and ageing resistance. In vulcanised state, 125 Handwerk is physiologically harmless and inert.



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3. Priming table

Key

+	Good adhesion without primer
-	No adhesion
Primer	Recommended primer

	Coloured	Transparent
Glass	+	+
Tiles	+	+
Pine wood	+	+
Wet ground concrete	+	+
Concrete, formwork smoothness	+	+
Steel DC 04	+	+
Hot-dip galvanised steel	+	+
Stainless steel	+	+
Zinc	+	+
Aluminium	+	+
Aluminium AlMg1	+	+
Aluminium AlCuMg1	+	+
Aluminium 6016	+	+
Anodised aluminium	+	+
Brass MS 63 Hardness F 37	+	+
PVC Kömadur ES	+	+
PVC soft	+	+
PC Makrolon Makroform 099	+	+
Polyacrylic PMMA XT 20070 Röhm*1	Primer 40	Primer 40
Polystyrene PS Iroplast	Primer 100 / Primer 105	Primer 100 / Primer 105
ABS Metzoplast ABS 7 H	Primer 100 / Primer 105	+
PET	+	+
PU waste quality	+	+
Copper	+	+
Polycarbonate	Primer 40	Primer 40
PMMA Röhm sanitary quality	Primer 100	Primer 100
Mirrors*2	-	+
Natural stone	-	-

This table is based on adhesion tests with Rocholl test specimens under laboratory conditions. In practice, the adhesive properties depend on a large number of external influences (weathering, contamination, loads, etc.). Therefore, this table is for guidance only and does not constitute a binding statement. For further information please contact our application engineering department. The tests carried out above only refer to the adhesive properties and have no significance in terms of compatibility with the stated substrates.

*1: Different PLEXIGLAS® types exhibit certain differences in their chemical resistance. Stresses must be expected in some applications. The resulting stresses, in combination with certain agents, can lead to "stress cracking". The duration, temperature and concentration of the acting substance have a fundamental influence on any "stress cracks". When using our products in combination with PLEXIGLAS®, the suitability must therefore be checked in advance.

*2: The compatibility with various mirror coatings by different manufacturers is regularly tested in our laboratory. Advance testing is recommended due to production processes of the various manufacturers, into which we have no insights, and as a function of the existing substrate and bonding variants.

4. Application

125 Handwerk is suitable for sealing single panes or insulating glazing (compatibility with the insulating glazing edge seal must be ensured prior to application). For applications with laminated safety glass units, please consult our application engineering department. Due to its good rub resistance, the sealant can also be used in sanitary applications.



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5. Meets the requirements of IVD instruction sheet

No. 1	Sealing of floor joints with elastic sealants
No. 3-1	Construction and sealing of joints in sanitary and wet areas - Part 1: Sealing of sprayable sealants
No. 9	Sprayable sealants in the perimeter joint for windows and exterior doors
No. 10	Sealing glazing on wooden windows with sprayable sealants. Sealants for multi-pane insulating glazing and self-cleaning glazing
No. 13	Sealing glazing on wooden/metal window constructions with sealants
No. 14	Sealants and mould infestation
No. 19-1	Sealing of joints and connections in the roof area. Possible applications of sprayable sealants, assembly adhesives, butyl sealing tapes and profiles.
No. 20	Joint seal on wooden components and wood-based materials. Possible applications of sprayable sealants
No. 22	Perimeter joints in structural steel and aluminium facades and structural glazing. Possible applications of sprayable sealants
No. 24	Sealing joints with sprayable sealants and pre-compressed sealing tapes, and with assembly adhesives in conservatory building work
No. 25	Sealing joints and connections in plumbing
No. 27	Sealing of connection and expansion joints on the facade with sprayable sealants
No. 28	Renovation of defective joint sealing on the facade
No. 31	Refurbishment of joint seals in building construction
No. 35	Sealing and bonding in construction - Systems - Classification - Application

6. Processing

General instructions: The expiry date of the material must be observed, otherwise the stated mechanical properties of the product can no longer be guaranteed. Observe the ambient temperature and substrate temperature. **Pre-treatment of the adhesion surfaces:** the adhesion surfaces must be load-bearing, dry, and free of dust, grease, and oil. If required, carefully pre-treat the adhesion surfaces using a suitable primer. **Joint design:** For motion compensating joints, the dimensions must be designed to absorb the maximum motion expected. A minimum cross-section of 3x5 mm must be adhered to for the joint. The joint design must comply with the applicable standards and regulations. **Application of the sealant:** Working within the application temperature limits, the product must be applied uniformly to the joint avoiding inclusions. If the substrate is pretreated with primer, its flash-off time must be observed. The tooling work must be completed within the stated skin formation time. When reworking, good contact with the adhesive surfaces/joint edges must be ensured (using Ramsauer tooling agent). When using tooling agents, any water streaks that have formed must be removed immediately after sealing, as visual flaws can otherwise be expected.

7. Application restrictions

Caution: Discolouration of the sealant can occur in combination with some coating systems (e.g. linseed oil varnish, stand oil varnish). Due to the large number of different coating systems, we recommend checking compatibility in advance. Heavy exposure to tobacco smoke or environmental influences can lead to discolouration. 125 Handwerk is not suitable for grouting natural stone. Not suitable for aquarium construction and drinking water applications. Avoid contact with materials containing bitumen and plasticisers. The condition for chemical resistance to PVB films is a flawless bond between the PVB film and the glass. Since PVB films are sensitive to water, the edge of the laminated safety glass pane must be correctly implemented to protect the PVB film against water ingress. In applications with insulating glazing, compatibility with the edge sealant system in use must be checked in advance.



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8. Safety instructions

Please refer to the current EC safety data sheets. Data sheets are available at any time from our website at www.ramsauer.eu.

9. Application notes

Before applying 125 Handwerk to substrates that have been pre-treated with water-soluble paint systems (surfaces, primer), it is important to carry out bonding tests. If the bond is poor, the substrate must be primed with an adhesive coat. Window sashes painted in a light colour must be stored upright after sealing with a minimum distance of 5 cm to allow the cleavage products to flash off (risk of paint discolouration). When carrying out sealing work with 125 Handwerk in rooms with emulsion paint, it must be ensured that the emulsion paint is completely cured, as volatile components of the coating can discolour the sealant on the surface during the curing process (causing yellowing). Discolouration can also occur in combination with some coating systems (e.g. linseed oil varnish, stand oil varnish). Heavy exposure to tobacco smoke or environmental influences can lead to surface discolouration of the sealing compound. Not suitable for bonding mirrors. Mould infestation cannot be ruled out in case of use in sanitary areas. Use our 400 Acrylglas (stress cracks) product for extruded polyacrylates and Makrolon moulded parts. Not suitable for drinking water applications. Use our 410 Aquarium sealant for waterproofing or aquarium bonding work. Avoid contact with materials containing bitumen and/or plasticisers. The condition for chemical resistance to PVB films is a flawless bond between the PVB film and the glass. Since PVB films are sensitive to water, the edge of the laminated safety glass pane must be correctly implemented to protect the PVB film against water ingress.

10. Liability for defects

The information, in particular the suggestions for the processing and use of our products, is based on our knowledge and experience in normal use cases at the time of printing. Depending on the specific circumstances, in particular with regard to substrates, processing and environmental conditions, the results may differ from this information. Therefore the guarantee of a work result or a liability, for whatever legal reasons, can be justified neither from these references, nor from a verbal consultation, unless we are guilty of intent or gross negligence in this respect. Ramsauer guarantees that its products comply with the technical properties specified in the technical data sheets until the expiry date.

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