



RAMSAUER®

120

LASTING BONDS.

Neutral

1-component neutral silicone sealant

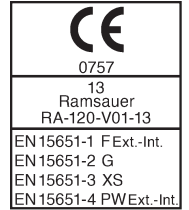


Technical data sheet

Version: 04-2023

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.
- DIN 18545-2 Group E
- ift certification
- Suitable for use in the foodstuffs industry
- Fulfils the French VOC requirement Class A+



1. Mechanical Properties

Basis	Neutral cure oxime silicone sealant
Skin formation time	~ 5 Min. (23°C/50% relative humidity)
Full curing time	~2.4 mm/24 hours (at +23°C/50% relative humidity)
Density coloured	~ 1.07 (EN ISO 1183-1)
Density transparent	~ 1.02 (EN ISO 1183-1)
Shore A hardness	~ 17 (DIN EN ISO 868)
Volume shrinkage	~ 4% (EN ISO 10563)
Tear propagation resistance	~ 4.87 N/mm (ISO 34-1)
Tensile stress at break	~ 0.57 N/mm ² (DIN EN ISO 8339)
Module	~ 0.42 N/mm ² (EN ISO 8339)
Elongation at break	~ 200% (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

120 Neutral vulcanises when exposed to air humidity, releasing a chemically neutral cleavage product which has no corrosive properties towards metals. 120 Neutral has an excellent adhesion profile without additional priming of the substrates on a wide range of plastics, silicate substrates, metals (such as concrete, PVC, aluminium, anodic coatings, brass, etc.), glass and water-dilutable coating systems. 120 Neutral is fungicidal and therefore has excellent mould resistance. The material is absolutely resistant to UV and weathering.



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3. Priming table

Key

+	Good adhesion without primer
-	No adhesion
Primer	Recommended primer

	Coloured	Transparent
Glass	+	+
Tiles	+	+
Pine wood	Primer 70	Primer 70 / +
Wet ground concrete	+	Primer 70
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	Primer 100 / Primer 105	+
PVC soft	+	+
PC Makrolon Makroform 099	+	+
Polyacrylic PMMA XT 20070 Röhm*1	Primer 40	Primer 40
Polystyrene PS Iroplast	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 40	+
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

120 Neutral is suitable for sealing single-pane, insulating and laminated safety glass in plastic, wooden and metal frames, and for sealing frame constructions, in concrete building work, iron constructions and container building work. Suitable for sealing Profilit glazing. In vulcanised state, 120 Neutral is physiologically harmless and inert. The product can be used for a wide range of interior and exterior 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.



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7. Application restrictions

Caution: Before applying the sealant to substrates (surfaces, primer) that have been pre-treated with water-soluble paint systems, it is important to carry out bonding tests. If the bond is poor, the substrate must be primed with an adhesive coat. In the case of surfaces painted in a light colour, the window sashes must be stored upright after sealing to allow for exhaust ventilation – minimum distance 5 cm (risk of discolouration). In rooms where emulsion paints have been used, it is important to ensure that the coating is completely dry and exhaust ventilated, as the sealant can discolour due to cleavage products of the emulsion paint combining with the sealant during grouting or sealing work indoors.

Discolouration can 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 discolouration. Not suitable for bonding mirrors, natural stone and aquariums. Not suitable for bonding in underwater areas, e.g., of swimming baths. Use our 400 Acrylglas (stress cracks) product for extruded polyacrylates. Avoid contact with materials containing bitumen and/or plasticisers, e.g. butyl, neoprene, EPDM, etc. Not suitable for large-surface bonding. Before using the sealant, the user must rule out incompatibilities with other building materials in the contact area. The condition for compatibility with PVB films is a flawless bond between the PVB film and the glass. In the context of insulating glass, the compatibility with the edge sealant material must be tested in advance.

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

Good ventilation must be ensured during processing and curing. Due to the large number of possible influences during processing and application, the processor must always carry out a test processing before use. Note the expiry date of the material. 1-component silicones are not suitable for full-surface bonding. The curing speed increases with increasing coating thickness. If you intend to use the 1-component silicone with a coat thicknesses of more than 15 mm, please contact our application engineering department. If the products are stored and/or transported over a longer period of time (several weeks) at higher temperatures/humidity, the shelf life may be reduced or the material properties may change. During application of the NIRO hue, the colour pigment used here can cause visual flaws, dark separating lines, etc., where two silicone layers overlap. This is not a reason for complaint, but a typical product property.

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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