

120 Neutral

Neutral cure silicone



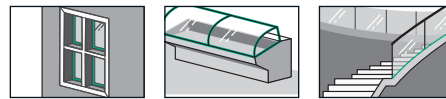
Technical data sheet

Version: 10-2025



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 acc. to ISEGA certificate 63328 U24
- Fulfils the French VOC requirement Class A+
- Listed on baubook



Tested
PVB-film
compatibility



Highly UV &
weathering
resistant



Approved
abrasion
resistance



Tested for the
foodstuffs
industry

Custom colors
on request!

1. Technical data

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/transparent	~ 1.07 / 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 (DIN EN ISO 8339)
Elongation at break	~ 200% (DIN EN ISO 8339)
Diffusion current density for a thickness of 10 mm	~ 2.4 g/(m ² .d)
Water vapour diffusion resistance no. μ acc. to DIN EN ISO 12572	980
Diffusion equivalent air layer thickness S_d acc. to DIN EN ISO 12572	9,8m at 10mm test thickness
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	310 ml cartridge; 400 & 600 ml 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

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2. Properties / applications

120 Neutral vulcanises when exposed to air humidity, releasing a chemically neutral cleavage product which has no corrosive properties towards metals. The sealant 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. 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.

3. Substrate pre-treatment

The adhesion surfaces must be dry, capable of bearing, and free of dust, oil and grease. Pre-cleaning with 828 Grundreiniger is generally recommended on non-absorbent substrates, but compatibility with sensitive surfaces should be checked in advance to avoid surface damage. If required, carefully pretreat the adhesion surfaces using a suitable primer. Sanding with a fine sanding fleece can further improve adhesion on smooth surfaces.

Substrate*	Pre-treatment, coloured	Pre-treatment, transparent
Glass	828 Grundreiniger	828 Grundreiniger
Tiles	828 Grundreiniger	828 Grundreiniger
Wet ground concrete	Dust free	Primer 70
Concrete, formwork smoothness	Dust free	Dust free
Steel DC 04	828 Grundreiniger	828 Grundreiniger
Hot-dip galvanised steel	828 Grundreiniger	828 Grundreiniger
Stainless steel	828 Grundreiniger	828 Grundreiniger
Zinc	828 Grundreiniger	828 Grundreiniger
Aluminium	828 Grundreiniger	828 Grundreiniger
Aluminium AlMg1	828 Grundreiniger	828 Grundreiniger
Aluminium AlCuMg1	828 Grundreiniger	828 Grundreiniger
Aluminium 6016	828 Grundreiniger	828 Grundreiniger
Anodised aluminium	828 Grundreiniger	828 Grundreiniger
Brass MS 63 Hardness F 37	828 Grundreiniger	828 Grundreiniger
PVC Kömadur ES	828 Grundreiniger / Primer 100	828 Grundreiniger
PVC soft	828 Grundreiniger	828 Grundreiniger
PC Makrolon Makroform 099	828 Grundreiniger	828 Grundreiniger
Polyacrylic PMMA XT 20070 Röhm*1	828 Grundreiniger / Primer 40	828 Grundreiniger / Primer 40
Polystyrene PS Iroplast	828 Grundreiniger / Primer 100	828 Grundreiniger
ABS Metzoplast ABS 7 H	828 Grundreiniger	828 Grundreiniger / Primer 100
PET	828 Grundreiniger	828 Grundreiniger
PU waste quality	828 Grundreiniger	828 Grundreiniger
Copper	828 Grundreiniger	828 Grundreiniger
Polycarbonate	P828 Grundreiniger / Primer 40	828 Grundreiniger / Primer 40
PMMA Röhm sanitary quality	P828 Grundreiniger / Primer 40	828 Grundreiniger
Mirrors*2	not suitable	828 Grundreiniger
GRP	828 Grundreiniger	828 Grundreiniger
EPDM Semperit E 9614	828 Grundreiniger	828 Grundreiniger

***For substrates which are not listed in this table, the processor must always carry out preliminary tests to check the suitability of the sealant for use. The tests carried out above only refer to the adhesive properties and have no significance in terms of compatibility with the stated substrates.**

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, etc.). Therefore, this table is for guidance only and does not constitute a binding statement.

*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.

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4. Application notes/restrictions

- Compatibility with many popular PVB films is assured, however, testing prior to processing is recommended.
- In applications with insulating glazing, compatibility with the edge sealant material in use must be checked in advance.
- The product is not suitable for underwater joints in swimming baths and aquariums or for sealing and adhesion bonding of natural stone.
- Before applying the sealant to substrates which have been pre-treated with water-soluble paint systems, it is essential to carry out bonding tests. If the bond is poor, the substrate must be primed with an adhesive coat.
- 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.
- In the case of surfaces painted in a light colour, the window sashes should be stored upright after sealing to allow for exhaust ventilation – minimum distance 5 cm (risk of discolouration).
- The sealant should not be painted over.
- Not suitable for bonding mirrors or for use on extruded polyacrylates.
- Avoid contact with materials containing bitumen and plasticisers, e.g. butyl, EPDM, neoprene, insulating paints or bituminous coating, etc.
- Single-component materials are not suitable for large-surface adhesive bonding or joints above 15 mm. Using the single-component material in layer thicknesses of more than 10 mm, the curing speed is reduced considerably in some cases.
- Without pre-treatment, no adhesion is possible on plastics with a low-energy surface, such as PE, PP or PTFE
- Not suitable for joints in wood and parquet flooring. Use our 440 Naturstein or 423 Parkettfuge for this.
- Not suitable for use on untreated wood. Curing-related cleavage products can lead to staining on absorbent substrates (greasiness of the edge zone)!

5. Processing

General instructions: The expiry date of the material must be observed, otherwise the properties of the product can no longer be guaranteed. If the products are stored and/or transported over a longer period of time at higher temperatures/humidity, the shelf life may be reduced or the material properties may change. Strong environmental influences (e.g. high temperature, UV exposure, chemical influences such as vapours) can affect the properties of the material to varying degrees. Before applying, the user must ascertain that the building materials (solid, liquid or in gaseous form) are compatible with the sealant in the contact area. Pay attention to the ambient and substrate temperature during application because as excessively high or low temperatures can lead to changes in properties. Due to the large number of possible influences during processing, it is always advisable for the processor to carry out a test processing before use. Good ventilation must be ensured during processing and curing.

Pre-treatment of the adhesion surfaces: The substrate must be pretreated in accordance with the instructions in section 3 of this technical data sheet.

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. To avoid 3-edge adhesion, backfill with a suitable material if necessary (preferably Ramsauer 1050 round profile closed-cell)

Application of the sealant: 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 (use Ramsauer tooling agent).

Post-treatment: Once the joint has been formed, any residue of tooling agent must be removed before it dries, otherwise visual flaws are to be expected.

6. Maintenance and care

Ramsauer sealants and adhesives are carefully manufactured using state-of-the-art production processes. This results in high-quality products which, when processed appropriately, enable durable and resistant bonding and jointing. However, in order to guarantee the functionality of the joints and bondings, they need to be checked at regular intervals in accordance with the loads they are exposed to (chemical, mechanical, thermal, UV radiation), to clean them and to renew them if necessary (also see information sheet "Care and maintenance of joint seals").

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7. 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	For 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

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. 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, no guarantee can be provided for the quality of the results achieved, which are influenced by the aforementioned circumstances. No legal claim, in whatever form, can be asserted against Ramsauer GmbH & Co KG based on these reference or from a verbal consultation, unless we are guilty of intent or gross negligence in this respect. Ramsauer GmbH & Co KG guarantees that its products comply with the technical properties specified in the technical data sheets until the expiry date. Product users must consult the latest technical data sheet, which can be requested from us. Our current General Terms and Conditions apply, which you can download at any time from our homepage at **www.ramsauer.eu**. On publication of a new version/revision of the technical data sheet, all previous versions of the respective product lose their validity.

 0757 13 Ramsauer RA-120-V01-13 EN15651-1 FExt.-Int. EN15651-2 G EN15651-3 XS EN15651-4 PWExt.-Int.	 Produktqualität Verglasungsdichtstoff DIN 18545-2, DIN EN ISO 11600 Zertifizierungsprogramm Nr.: 5957031396		 baubook Die Datenbank für ökologisches Bauen & Sanieren	 ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A B C  25 JAHRE QUALITÄT DURCHAUSGEHEBENDE KOMFORTFÖHLE
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