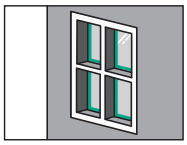
130

Alkoxy

1-component neutral alkoxy sealant

RAMSAUER®

LASTING BONDS.



CE
0757
13
Ramsauer
RA-130-V01-13
EN 15651-1 F Ext.-Int.
EN 15651-2 G
EN 15651-4 PW Ext.-Int.

GEV-EMICODE EC 1 PLUS sehr emissionsarm

25 JAHRE QUALITÄT

ÉMISSIONS DANS L'AIR INTÉRIEUR A+

ift ZERTIFIZIERT Produktqualität Verglasungsdichtstoff DIN 18545-2 DIN EN ISO 11600 Zertifizierungsprogramm Nr.: 595/7031396

Technical data sheet

Version: 10-2023

Tests:

· DIN EN 15651-1 F25LM Ext. Int.
· DIN EN 15651-2 G25LM
· DIN EN 15651-4 PW12.5E Ext.-Int.
· DIN EN ISO 11600 G25LM
· Third-party monitored and certified by ift-Rosenheim
· Emicode EC1-PLUS R "very low emissions"
· Approved for use in the food sector
· Tested according to the European emission requirements IAC EU
· Suitable for use in cleanrooms
· Fulfils the French VOC requirement Class A+

1. Mechanical Properties

Basis	Neutral cure alkoxy silicone sealant
Skin formation time	~ 25 Min. (23°C/50% relative humidity)
Full curing time	~2.1 mm/24 hours (at +23°C/50% relative humidity)
Density	~ 1.02 (EN ISO 1183-1)
Shore A hardness	~ 20 (DIN EN ISO 868)
Volume shrinkage	~ 3.5% (EN ISO 10563)
Tear propagation resistance	~ 7.5 N/mm (ISO 34-1)
Tensile stress at break	~ 0.72 N/mm² (DIN EN ISO 8339)
Module	~ 0.43 N/mm² (EN ISO 8339)
Elongation at break	~ 300% (DIN EN ISO 8339)
Resistance to high and low temperatures	- 50°C bis +150°C (long-term stress)
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	10 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

130 Alkoxy is a silicone rubber that is specifically compatible with a wide range of glazes (paint systems). 130 Alkoxy is characterised by excellent adhesion to water-soluble paint systems – even without additional priming. The material is highly resistant to abrasion and externally monitored and certified by ift-Rosenheim. 130 Alkoxy is non-corrosive and characterised by very good UV and weathering resistance. Good compatibility with laminated safety glass films (PVB); for applications with cast resins and in combination with insulating glazing, please contact our application engineering department. The material does not offer fungicidal properties.

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3. Priming table

Key

+	Good adhesion without primer
-	No adhesion
Primer	Recommended primer

Glass	+
Tiles	+
Pine wood	+
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	+
PVC soft	+
PC Makrolon Makroform 099	+
Polyacrylic PMMA XT 20070 Röhm*1	Primer 40
Polystyrene PS Iroplast	Primer 100 / Primer 105
ABS Metzoplast ABS 7 H	+
PET	Primer 100 / Primer 105
PU waste quality	+
Copper	+
Polycarbonate	+
PMMA Röhm sanitary quality	+
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

130 Alkoxy is suitable for sealing single-pane and insulating glazing (also in combination with laminated safety glass pane) in wooden, plastic and metal frames, and for sealing frame constructions, ship building, iron constructions, tanks and container building work. Can also be used as a cleanroom silicone. Suitable for sealing perimeter joints. Suitable for mirror perimeter joints with tiles, metal, glass, etc.

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5. Meets the requirements of IVD instruction sheet

No. 1	Sealing of floor joints with elastic 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. 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, 130 Alkoxy 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. 130 Alkoxy 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 sheet. 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. 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.

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