

120 NEUTRAL

Neutral 1-component silicone sealant



RAMSAUER®
DICHTSTOFFE

TESTS, COMPLIANCE WITH STANDARDS

DIN EN 15651-1 F25LM Ext.-Int.

DIN EN 15651-2 G25LM

DIN EN 15651-3 XS1

DIN EN 15651-4 PW20LM Ext.-Int.

DIN 18545-2 Group E

DIN EN ISO 11600 G25LM

Meets the French VOC-requirements for class A+
Certified and external surveillance of quality management by ift-Rosenheim

TECHNICAL DATA

Basis: Neutrally cross-linking oxime system

Skin over time: ~ 8 min. (23°C/50 % relative humidity)

Curing time: ~3 mm/24 hours (at +23°C / 50 relative humidity)

Density: ~ 1.07 (EN ISO 1183-1)

Shore hardness: ~ 22 (EN ISO 868)

Shrinkage: ~ 4% (EN ISO 10563)

Sag resistance: <3

Tear strength: ~ 4.47 N/mm (ISO 34-1)

Stress at break: ~ 0.33 N/mm² (EN ISO 8339)

Modulus: ~ 0.27 N/mm² (EN ISO 8339)

Shear strength: ~ 0,79 N/mm² (DIN 52455-3)

Elongation at break: ~ 245% (EN ISO 8339)

Temperature resistance: - 50°C to +150°C

Processing temperature (substrate, environment): + 5°C to + 35°C

Movement capability: 25%

Not suitable for being covered with a paint coat

Storage life of foil bags and cartridges: 12 months in a cool and dry place

Storage life of 20l-hoblocks and 200l-drums: 6 months in a cool and dry place.

Colours: according to current colour chart

Packaging: 310ml cartridges, 400ml & 600ml-foil bags; alternative packaging upon request



CHARACTERISTICS

120 NEUTRAL cures when exposed to air humidity releasing a chemically neutral cleavage product which does not cause corrosion of metals. 120 NEUTRAL adheres perfectly without priming to a wide variety of plastics, silicatic substrates, and

metals (e.g. glass, PVC, aluminium, anodised aluminium, brass etc.) as well as water dilutable paint systems. The product contains fungicidal agents and it is UV-resistant.

APPLICATION

120 NEUTRAL is suitable for sealing single panes and insulating glass in wood and metal frames, as well as for sealing frame structures, construction of ships and boats, iron structures, tanks, and construction of containers. Suitable for

sealing U-profile/Profilit glazing systems. Before using the product with laminated safety glass or insulating glass units get in touch with our application engineering department. 120 NEUTRAL is physiologically safe and inert when cured.

MEETS THE REQUIREMENTS OF IVD-INSTRUCTION SHEETS

As of the date of publication only No. 14 is available in English, all other instruction sheets are available in German only

No. 1: Sealing of floor joints with elastic sealants

No. 3-1: Design and sealing of joints in sanitary facilities and moist rooms - Part 1: sealing with sprayable sealants

No. 9: Sprayable sealants in connection joints for windows and outside doors



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- No.10: Sealing of glass in wooden window frames by means of sprayable sealants. Sealants for multilayer insulating glass and self-cleaning glass
- No. 13 Sealing of glass in combined wooden-metal window frames by means of sealants
- No. 14: Sealants and mould infestation
- No.19-1: Sealing of joints and connections in roofs. Range of applications of sprayable sealants, installation adhesives, butyl sealing tapes, and -sections
- No.20: Sealing of joints in wood components and wood-based materials. Range of applications of sprayable sealants
- No.22: Connection joints in steel and aluminium facade construction, as well as glass construction. Range of applications of sprayable sealants
- No.24: Sealing of joints in the construction of winter gardens by means of sprayable sealants, pre-compressed sealing tapes, and installation adhesives
- No.25: Sealing of joints and connections for plumbers
- No.27: Sealing of connection joints and expansion joints in facades by means of sprayable sealants
- No.28: Renovation of defective joint seals in facades
- No.31: Renovation of joint seals in building construction
- No.35: Sealing and gluing at building sites: Systems – classification - applications

PROCESSING

Preparation of adherent surfaces: The adherent surfaces must be solid, dry, and free from dust, oil, and grease. Prime adherent surfaces carefully with a suitable primer if required.

Joint design: In case of joints accommodating movement the joint dimensions must be chosen according to the maximum allowed distortion. A minimum joint cross section of 3x5 mm is imperative. Joint design must be in accordance with the applicable standards and guidelines (e.g. DIN 18540 or DIN 18545) as amended from time to time.

Introducing the sealant: 120 NEUTRAL must be introduced into the joint evenly and without bubbles while the product is

within the processing temperature range. When priming the substrate take into account the open time of the primer. Ensure good adhesion to the adherent surfaces/joint edges during finishing work (smoothing with Ramsauer smoother). When using a smoother remove any strips of water immediately after sealing. If cleaning is delayed permanent streaks may remain.

When using the product in colour NIRO the pigment may cause visual flaws in overlapping silicone layers in the form of dark separation lines etc. This is not a defect or reason for complaints but a typical product characteristic.

LIMITATIONS OF APPLICATION

It is imperative to make adhesion tests before applying 120 NEUTRAL to any substrate (area, primer) previously treated with water dilutable paint systems. In case of poor adhesion the substrate must be primed. In case of window surfaces covered with a bright paint coat the window leaves should be stored in an upright position after sealing in order to ensure ventilation - minimum distance 5 cm (danger of decolouration). In rooms where dispersion paints are used it must be ensured that the paint is completely dry and has been sufficiently ventilated since cleavage products of the dispersion paint in contact with 120 NEUTRAL may cause discolouration of the sealant when filling joints or sealing indoors. Using the product together with some paint systems (e.g. linseed oil varnish, stand oil varnish) may result in discolouration. Heavy exposure to tobacco smoke or environmental factors may cause discolouration. The product is not suitable for gluing mirrors, natural stone or aquariums.

Not suitable for sealing underwater structures, e.g. swimming pools. Not suitable for tarry and bituminous substrates. In case of extruded polyacrylates use our product 400 ACRYLGLAS (stress cracks). Avoid any contact with bituminous materials or materials releasing plasticisers (e.g. butyl, neoprene, EPDM etc.). The product is not suitable for surface bonding. Before using the sealant the user must make sure that there will be no incompatibility in contact zones with other building materials. Joints with PVB-foils will be chemically resistant only with a perfect connection between the inserted PVB-foil and glass. Since PVB-foils are sensitive to water the edge of the safety glass pane must be made accurately in order to protect the PVB-foil from the penetration of water. Before using the product with insulating glass it is imperative to test for compatibility with the edge sealant.



ATTENTION

Product contains 2-butanone oxime. May produce an allergic reaction. Keep out of the reach of children. Use in well ventilated areas only or with an extraction system.

SAFETY ADVICE

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

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. 1-component silicone sealants are not suitable for full surface bonding. The curing time increases with the thickness of the layer. Before using the 1-component silicone sealant in layers

with a thickness of more than 15 mm get in touch with our application engineering department. 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.

PRIMING TABLE

	Transparent	Coloured
Glass	+	+
Tiles	+	+
Pinewood	RP 70	RP 70
Concrete, wet-ground	+	+
Concrete, smooth according to formwork	+	RP 70
Steel DC 04	+	+
Hot dip galvanised steel	+	+
High grade steel	+	+
Zinc	+	+
Aluminium	+	+
Aluminium AlMg1	+	+
Aluminium AlCuMg1	+	+
Aluminium 6016	+	+
Aluminium anodised	+	+
Brass MS 63 Hardness F 37	+	+
Rigid PVC Kömadur ES	+	+
PVC plasticised	+	+
PC Makrolon Makroform 099	+	+
Polyacryl PMMA XT 20070 Röhm	RP 100 / RP 105	RP 100 / RP 105
Polystyrene PS Iroplast	+	RP 100 / RP 105
ABS Metzoplast ABS 7 H	+	RP 100 / RP 105
PET	+	+
PU blend quality	+	+
Copper	+	+
Polycarbonate	-	-
PMMA Röhm sanitary quality	RP 40	RP 100 / RP 105
Mirrors	-	-
Natural stone	-	-

Legend:
+ = adheres well without a primer
- = not suitable
RP = Ramsauer primer

This table is based on adhesion tests with test solids of Rocholl corporation under laboratory conditions. Under field conditions the adhesion characteristics are dependent on a variety of external factors (weather, impurities, burdens, etc.). Therefore this table serves for guidance only and does not constitute any binding statement. For more information get in touch with our application engineering department.



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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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