120 NEUTRAL

RAMSAUER®
DICHTSTOFFE

Permanently elastic, 1-component silicon sealant curing with air humidity.
Tested to DIN 18545 Part 2 Group E and DIN EN ISO 11600 Class G25LM; External quality control and certified by ift Rosenheim; in accordance with DIN 18540 Part 1; contains fungicidal agents, UV-resistant

- Basis: neutrally cross-linking oxime system
- Shore hardness: approx. 30 (DIN 53505)
- Tensile strength: approx. 0.27 N/mm² (DIN 52455)
- Elongation at break: 200 % (DIN 52455)
- Movement capability: ~ 25%
- Density: ~ 1.02 g/cm³ (transparent); ~ 1,07 g/cm³ (coloured)
- Temperature resistance: – 50°C to + 150°C
- Processing temperature: + 5°C to + 35°C
- Storage life:12 months when kept in a cool and dry place
- Colours: according to current colour chart
- Packaging: 310ml cartridges, 400ml & 600ml-foil bags; other packages upon enquiry

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.

Application

120 NEUTRAL is suitable for sealing single-panes and insulating glass (even laminated safety glass) in wood and metal frames, as well as for sealing frame structures, automotive industry, construction of ships and boats, iron structures, tanks and construction of containers. Suitable for sealing U-profile/Profilit glazing systems. 120 NEUTRAL is highly compatible with PVB-foils in laminated safety glass. Prior to any use with cast resins or edge sealing of laminated safety glass please get in touch with our application engineering department. 120 NEUTRAL is physiologically safe and inert when cured.

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 as revised from time to time (e.g. DIN 18540 and/or DIN 18545).
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 the finishing work (smoothing with Ramsauer smoother). When using a smoother remove any streaks of water immediately after sealing. If cleaning is delayed permanent streaks may remain.

Limitations of application

Before using 120 NEUTRAL on any substrate (surface) previously treated with water dilutable paint systems it is imperative to conduct adhesion tests. In case of poor adhesion apply a primer to promote adhesion. In case of window surfaces covered with a bright paint coat the window leafs 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. 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.). Not suitable for gluing large areas. 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 joint 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.

Warning!

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

Refer to the current EC Safety Data Sheet. Safety data sheets are available at any time at our website **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 gluing full areas. 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
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	+	RP 140
Rigid PVC Kömadur ES	+	+
PVC plasticised	+	+
PC Makrolon Makroform 099	-	-
Polyacryl PMMA XT 20070 Röhm	-	-
Polystyrene PS Iroplast	RP 100	+
ABS Metzoplast ABS 7 H	RP 100	+
PET	RP 100	+
PU cut-back quality	+	+
Copper	+	+
Polycarbonate	-	-
PMMA Röhm sanitary quality	WP 40	+
Mirrors	-	-
Natural stone	-	-

Legend: + = adheres well without a primer
- = not suitable
WP/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.

Liability for defects

The information provided including but not limited to the proposals for processing and using our products are 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** at any time.