

131 MULTIFLEX



RAMSAUER®
DICHTSTOFFE

Neutrally cross-linking 1-component silicone sealant

TESTS, COMPLIANCE WITH STANDARDS

DIN EN 15651-1 F25LM Ext.-Int.

DIN EN 15651-2 G25LM

DIN EN 15651-4 PW12,5E Ext.-Int.

DIN 18545-2 Group E

DIN EN ISO 11600 G25LM

Tested for compatibility with laminated safety glass according to ift Guideline DI-02/1

Ecodec EC1-R "very low emission"

Meets the French VOC-requirements for class A+

Oddy-Test of the fine arts museum "Kunsthistorisches Museum Wien" and the "Staatliche Museen Berlin"

Tested for application with foodstuffs

TECHNICAL DATA

Basis: Neutrally cross-linking alkoxy System

Skin-over time: ~ 13 min. (23°C/50 % relative humidity)

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

Density: ~ 1.01 (EN ISO 1183-1)

Shore hardness: ~ 18 (EN ISO 868)

Shrinkage: ~ 6.3% (EN ISO 10563)

Sag resistance: <3

Tear resistance: ~ 4.30 N/mm (ISO 34-1)

Stress at break: ~ 0.37 N/mm² (EN ISO 8339)

Modulus: ~ 0.25 N/mm² (EN ISO 8339)

Elongation at break: ~ 248% (EN ISO 8339)

Movement capability: approx. 25%

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

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

Packaging: 310ml-cartridges, 600ml foil bags

Colours: according to current colour chart.

Storage life: 12 months in a cool and dry place

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



CHARACTERISTICS

131 MULTIFLEX is a one component silicone sealant ready for use which has been developed especially for windows and doors. The material is UV-, weather- and ageing resistant.

Excellent adhesion to glass, many metallic substrates, and a wide variety of plastics even without a primer. 131 MULTIFLEX is physiologically safe and inert when cured.

APPLICATION

131 MULTIFLEX is suitable for sealing single panes and insulating glass (even laminated safety glass) in wood, metal, and plastic frames. 131 MULTIFLEX is highly compatible with foils of laminated safety glass (PVB). Before using the product

with cast resins and with insulating glass consult our application engineering department. The product is also suitable for sealing connection joints and expansion joints, as well as mirror joints.

MEETS THE REQUIREMENTS OF IVD-INSTRUCTION SHEETS

As of the date of publication the instruction sheets mentioned below are available in German only.

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

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Supersedes version: 02/13

Ramsauer GmbH & Co KG, 4822 Bad Goisern am Hallstätter See, Sarstein 17, Austria

Phone: +43 (0)6135 8205-0, Fax: +43 (0)6135 8323 - Email: office@ramsauer.at - Internet: www.ramsauer.at



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- No. 19-1: Sealing of joints and connections in roofs. Range of applications of sprayable sealants, installation adhesives, butyl sealing tapes, and -sections
- No. 22: Connection joints in steel and aluminium facade construction, as well as glass construction. Range of applications of sprayable sealants
- No. 25: Sealing of joints and connections for plumbers

PROCESSING

Before using the product make sure that all building materials in the contact zone are compatible with the sealant.

Preparation of adherent surfaces: The adherent surfaces must be solid, dry, and free from dust, oil, and grease. Prime adherent surfaces carefully 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. For backfilling use a suitable closed-cell section on a PE-basis.

Introducing the sealant: 131 MULTIFLEX 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 strips of water immediately after sealing. If cleaning is delayed permanent streaks may remain.

LIMITATIONS OF APPLICATION

Attention: Combination with some paint systems (e.g. linseed oil varnish, stand oil varnish) may result in discolouration of the sealant. Heavy exposure to tobacco smoke or environmental factors may cause discolouration. In view of the variety of lasur paints available we recommend that users make their own adhesion tests before application. 131 MULTIFLEX is not suitable for sealing natural stone joints; not suitable for aquariums or for drinking water systems. Avoid contact with materials containing bitumen or plasticisers. 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.

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 carry out tests for compatibility with the edge sealing system.

SAFETY ADVICE

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

PROTECTION AT WORK AND HEALTH PROTECTION

Avoid swallowing and prolonged or repeated skin contact. Keep out of the reach of children. Consult our Safety Data Sheet.

ADVICE FOR APPLICATION

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. 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

Glass	+
Tiles	+
Pine wood	+
Concrete, wet-ground	RP 70
Concrete, according to formwork	RP 70
Steel DC 04	+
Hot dip galvanised steel	+
High grade steel	RP 140 / RP 145
Zinc	+
Aluminium	RP 140 / RP 145
Aluminium AlMg1	+



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Aluminium AlCuMg1	Ø
Aluminium 6016	+
Aluminium anodised	+
Brass MS 63 hardness F 37	+
Rigid PVC Kömadur ES	RP 100 / RP 105
PVC plasticised	+
PC Makrolon Makroform 099	-
Polyacryl PMMA XT 20070 Röhm	RP 40
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
Mirrors	+* (for sealing joints)
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.

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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