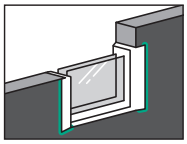
320 Baudicht

1-component hybrid sealant

RAMSAUER®

LASTING BONDS.



CE
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Ramsauer
RA-320-V01-13
EN 15651-1 F Ext.-Int.
EN 15651-4 PW Int.

GEV-EMICODE EC 1 PLUS sehr emissionsarm

eco 1 ecobau Cert.

Technical data sheet

Version: 03-2024

Tests:

· DIN EN ISO 15651-1 F25LM Ext.-Int.
· DIN EN ISO 15651-4 PW20LM Ext.-Int.
· Emicode EC1PLUS „very low emissions“
· Fulfils the French VOC requirement Class A+
· Ecobau certified
· LABS-confirmity: VDMA 24364-S-L

1. Mechanical Properties

Basis	Hybrid MS polymer sealant
Skin formation time	~ 15 Min. (23°C/50% relative humidity)
Full curing time	~2.5 mm/24 hours (at +23°C/50% relative humidity)
Density coloured	~ 1.45 (EN ISO 1183-1)
Shore A hardness	~ 22 (DIN EN ISO 868)
Volume shrinkage	~ 1.7% (EN ISO 10563)
Tear propagation resistance	~ 7.23 N/mm (ISO 34-1)
Tensile stress at break	~ 0.52 N/mm² (DIN EN ISO 8339)
Module	~ 0.42 N/mm² (EN ISO 8339)
Elongation at break	~ 266% (DIN EN ISO 8339)
Resistance to high and low temperatures	-40°C to +110°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	310ml cartridge; 400 & 600ml 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

2. Properties

320 Baudicht is a high elastic, silicone-free and odourless sealant. It cures almost without shrinkage, is immediately resistant against rain and frost and absolutely weatherproof. 320 Baudicht exhibits excellent adhesion to virtually all substrates encountered in the building trade. In case of its low emission property, the sealant is perfect for indoor use. 320 Baudicht is paint compatible in accordance with DIN 52452 Part 4. However, due to the variety of paints and coatings available on the market, we recommend preliminary tests. Due to the elastic properties of the material, the sealant should not be painted over the entire surface.

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3. Priming table

Key

+	Good adhesion without primer
-	No adhesion
Primer	Recommended primer

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

320 Baudicht is suitable for sealing joints in facades, panels and parapet boards, for expansion and butt joints in prefabricated concrete construction and for perimeter joints in window and door frames. Suitable for sealing connection and expansion joints in interior and exterior areas. As this product is absolutely silicone-free, it can be used in areas of paint and powder coatings. 320 Baudicht is suitable for bonding Ramsauer connecting tapes 1093/1095/1097.

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5. Meets the requirements of IVD instruction sheet

No. 9	Sprayable sealants in the perimeter joint for windows and exterior doors
No. 12	Overpaintability of motion-compensating sealants in building construction. Requirements and impacts.
No. 16	Perimeter joints in dry construction. Possible applications of sprayable 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. 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. 29	Joint work in painting and decorating trade
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. Before applying, it must be ensured that all building materials in the contact area are compatible with the sealant. **Pretreatment 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. Substrates containing tar and bitumen are unsuitable as adhesion substrates or must be tested independently in advance. **Joint design:** For motion compensating joints, the dimensions must be designed to absorb the maximum motion expected. The joint cross-section must be planned in advance and adhered to. Joint dimensions that do not comply with the state of the art are impermissible. Back filling must be effected with a suitable PE-based closed-cell profile. **Application of the sealant:** Working within the application temperature limits, 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. When reworking, good contact with the adhesive surfaces/joint edges must be ensured (using Ramsauer tooling agent). The joint must be tooled within the skin formation time. **Rework:** Any contamination caused by the use of tooling agents must be removed and cleaned up immediately. Contamination from adjacent substrates must be cleaned up when fresh, this is also recommended for contaminated processing equipment.

7. Application restrictions

Caution: The product is not suitable for underwater joints in swimming baths and aquariums. Not suitable for sealing and bonding natural stone (edge zone contamination). For use in conjunction with roofing membranes/foils, please contact our application engineering department. When coating the sealing compound with alkyd resin paints, incompatibilities may occur (curing problems, sticky surfaces, discolourations, etc.). Not suitable for sealing glass rebates and in sanitary and permanently wet areas. Avoid contact with materials containing bitumen and plasticizers, e.g. butyl, EPDM, neoprene, insulating paints or bituminous coating, etc. Environmental influences (e.g., high temperature, UV exposure, chemical influences such as vapours, etc.) can affect the colours, but this has no negative effect on the product properties. In case of bonded joints exposed to UV, or for sealing glass, please contact our application engineering department. 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. High substrate or base temperatures during processing can lead to impairments of the mechanical properties.

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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. 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 sealants are not suitable for full-surface bonding. The curing speed increases with increasing coating thickness. If the 1-component material is used in coating 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.

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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