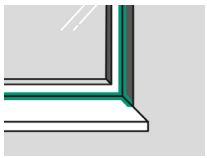
160 Acryl

1-component acrylic emulsion sealant

RAMSAUER®

LASTING BONDS.



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Ramsauer
RA-160-V01-13
EN 15651-1 F Ext.-Int.

GEV-EMICODE EC 1 PLUS sehr emissionsarm

25 JAHRE QUALITÄT

Technical data sheet

Version: 10-2023

Tests:

· DIN EN ISO 15651-1 F20LM Ext.-Int.
· Emicode EC1PLUS "very low emissions"
· IAC-EU
· DIN EN ISO 12572
· Fulfils the French VOC requirement Class A+

1. Mechanical Properties

Basis	Acrylate sealant
Skin formation time	~ 6 Min. (23°C/50% relative humidity)
Full curing time	~1 mm/24 hours (at +23°C/50% relative humidity)
Density	~ 1.61 (EN ISO 1183-1)
Shore A hardness	~ 24 (DIN EN ISO 868)
Volume shrinkage	~ 20% (EN ISO 10563)
Tear propagation resistance	~ 2.7 N/mm (ISO 34-1)
Elongation at break	~ 200% (DIN EN ISO 8339)
Resistance to high and low temperatures	-20°C to +80°C (long-term exposure)
Application temperature (substrate, environment)	Lower +5°C, upper +35°C
Admissible total deformation	20%
Colours	White, grey, dark brown
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

160 Acryl is a ready-to-use plasto-elastic 1-component acrylate joint sealant for concrete, aerated concrete, plaster, masonry, wood, etc. Ramsauer 160 Acryl forms a resistant skin after one hour and cures to a brittle-free material within 1 to 2 weeks, depending on the weather conditions. Suitable for standards-compliant, vapour-tight interior sealing of perimeter joints given correct application. Paint-compatible as per DIN 52452.

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3. Priming table

Key

+	Good adhesion without primer
-	No adhesion
Primer	Recommended primer

	Coloured
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	-
PVC soft	-
PC Makrolon Makroform 099	-
Polyacrylic PMMA XT 20070 Röhm*1	-
Polystyrene PS Iroplast	-
ABS Metzoplast ABS 7 H	+
PET	-
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

160 Acryl is used wherever joints or connections with moderate tensile stress need to be sealed. Examples include perimeter joints between wooden window frames and masonry, concrete, plaster/render, natural stone, joints to concrete and cement components. For sealing windows and door frames, exposed aggregate concrete facades, prefabricated gas concrete parts and for bonding polystyrene. The perfect choice for interior fitting and finishing.

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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. 20	Joint seal on wooden components and wood-based materials. Possible applications of sprayable sealants
No. 29	Jointing work in the painting and decorating trade

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. **Pretreatment of the adhesion surfaces:** Correct joint dimensions and pretreatment of the adhesion surfaces are essential for perfect sealing work. In order to achieve maximum adhesive strength, a load-bearing, clean, grease-free and structurally perfect substrate is required. 160 Acryl adheres to many substrates without primer. To improve adhesion, we recommend priming with a primer mixture of 160 Acryl and water in a ratio of 1:1 to 1:2 in all cases; wait until the coating has dried before grouting. Do not apply if it is raining or rain is expected. **Application of the sealant:** 160 Acryl must be applied evenly to the joint after joint pretreatment using a manual or compressed air gun and smoothed with a moistened spreader before a skin forms. The fresh joint sealant must be protected against washing out, condensation and mist. Joints and seals must be implemented in line with the state of the art and the applicable guidelines and standards.

7. Application restrictions

Caution: Until a firm skin has formed (approx. 12 hours), 160 Acryl must be protected against rain and solvents. After 1 week of drying (in a standard climate), the sealant can be painted over in line with DIN 52452. Compatible with coatings with an aqueous basis in most cases. However, due to the large number of coating systems available on the market, we recommend testing the compatibility of the sealant and coating. Too early overpainting or expansion of the joint can lead to the coating cracking. The sealant should be matched to the coating where possible. Not for civil engineering, underwater grouting and sealing on silicate substrates, e.g., glass, enamel and ceramics. Not approved for walkable joints and joints with wheeled traffic. Avoid contact with materials containing bitumen and plasticisers.

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. The curing speed increases with increasing coating thickness. If the sealant is used in coating thicknesses of more than 15 mm, please contact our application engineering department. During the curing/drying phase, the colour of acrylates changes due to the material - the final colour is only achieved after complete drying. 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.

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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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