

325 Brandschutz Hybrid

Hybrid sealant



Technical data sheet

Version: 02-2026



Tests:

- DIN EN 13501-1, Class B-s1,d0
- EMICODE EC1^{PLUS} "very low emissions"
- Fulfils the French VOC requirement Class A+
- Listed on baubook



Certified fire safety quality



Self-extinguishing material



Elastic



No corrosion on metals

1. Technical data

Basis	Hybrid MS polymer
Skin formation time	~ 5 Min. (23°C/50% relative humidity)
Full curing time	~2-3 mm/24 hours (at +23°C/50% relative humidity)
Density	~ 1,52 (EN ISO 1183-1)
Shore A hardness	~ 30 (DIN EN ISO 868)
Volume shrinkage	~ 1,5% (EN ISO 10563)
Tear propagation resistance	~ 7,1 N/mm (ISO 34-1)
Non-sag property	< 3 mm
Module	~ 0,43 N/mm ² (EN ISO 8339)
Elongation at break	~ 100% (DIN 53504-S1)
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	Anthracite, slight structuring
Packaging	310 ml cartridge, other containers on request
Shelf life of cartridges and foil bags	9 months in original packaging in cool and dry storage conditions

2. Properties/Applications

325 Brandschutz Hybrid is a specially developed, intumescent, flame retardant material on a hybrid basis. With the tested fire class B-s1 d0, according to DIN EN 13501-1, 325 Brandschutz Hybrid meets the highest requirements for a sprayable sealant. The product is silicone-free, odourless, cures almost without shrinkage, resistant to morning dew and absolutely weatherproof. Due to the excellent adhesion on almost all substrates (also on damp substrates), the product is ideally suited for perimeter joints and sealing in fire protection areas. 325 Brandschutz Hybrid 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. If the joint sealant is to be painted over or repainted, it must be noted that the fire protection properties of our product can be impaired. Wherever there are special requirements and specifications for fire protection. 325 Brandschutz Hybrid is suitable for sealing joints in facades and panels, 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.

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3. Substrate pre-treatment

The adhesion surfaces must be capable of bearing and free of dust, oil and grease. Pre-cleaning with 828 Grundreiniger is generally recommended on non-absorbent substrates, but compatibility with sensitive surfaces should be checked in advance to avoid surface damage. If required, carefully pretreat the adhesion surfaces using a suitable primer. Sanding with a fine sanding fleece can further improve adhesion on smooth surfaces.

Substrate*	Pre-treatment
Glass	828 Grundreiniger
Tiles	828 Grundreiniger
Pine wood	Dust free
Wet ground concrete	Dust free
Concrete, formwork smoothness	Dust free
Steel DC 04	828 Grundreiniger
Hot-dip galvanised steel	828 Grundreiniger
Stainless steel	828 Grundreiniger
Zinc	828 Grundreiniger
Aluminium	828 Grundreiniger
Aluminium AlMg1	828 Grundreiniger
Aluminium AlCuMg1	828 Grundreiniger
Aluminium 6016	828 Grundreiniger
Anodised aluminium	828 Grundreiniger
PVC Kömadur ES	828 Grundreiniger
PVC soft	828 Grundreiniger
Polyacrylic PMMA XT 20070 Röhm*1	828 Grundreiniger
Polystyrene PS Iroplast	828 Grundreiniger
ABS Metzoplast ABS 7 H	828 Grundreiniger
PET	828 Grundreiniger
PU waste quality	828 Grundreiniger
Polycarbonate	828 Grundreiniger
PMMA Röhm sanitary quality	828 Grundreiniger

***For substrates which are not listed in this table, the processor must always carry out preliminary tests to check the suitability of the sealant for use. The tests carried out above only refer to the adhesive properties and have no significance in terms of compatibility with the stated substrates.**

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, etc.). Therefore, this table is for guidance only and does not constitute a binding statement.

***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 notes/restrictions

- Not suitable for sealing and bonding natural stone (edge zone contamination).
- When coating the sealing compound with alkyd resin paints, incompatibilities may occur (curing problems, sticky surfaces, discolourations, etc.).
- Not approved for bonding mirror elements and/or coated glass units. Not suitable for sealing glass rebates.
- Avoid contact with materials containing bitumen and plasticisers, e.g. butyl, EPDM, neoprene, insulating paints or bituminous coating, etc.
- Despite the product's high resistance, it can be affected by strong environmental influences (chemical, mechanical, thermal, UV radiation) both in terms of colour and technical properties.
- **Please note that coating the sealant is not permitted when it is used as a fire protection product!**
- Please note that painting over the sealant may impair the elastic properties of the product; the sealant should therefore not be painted over across its entire surface.
- In the case of non-opaque paint systems, the paint system or joint may darken slightly ("shadowing").
- Single-component materials are not suitable for large-surface adhesive bonding or joints above 15 mm. Using the single-component material in layer thicknesses of more than 10 mm, the curing speed is reduced considerably in some cases.
- Hybrid sealants and adhesives are not suitable for permanent joints or adhesion bonding of copper and brass
- Without pre-treatment, no adhesion is possible on plastics with a low-energy surface, such as PE, PP or PTFE

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5. Processing

General instructions: The expiry date of the material must be observed, otherwise the properties of the product can no longer be guaranteed. If the products are stored and/or transported over a longer period of time at higher temperatures/humidity, the shelf life may be reduced or the material properties may change. Strong environmental influences (e.g. high temperature, UV exposure, chemical influences such as vapours) can affect the properties of the material to varying degrees. 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. Pay attention to the ambient and substrate temperature during application because as excessively high or low temperatures can lead to changes in properties. Due to the large number of possible influences during processing, it is always advisable for the processor to carry out a test processing before use. Good ventilation must be ensured during processing and curing.

Pre-treatment of the adhesion surfaces: The substrate must be pretreated in accordance with the instructions in section 3 of this technical data sheet.

Joint design: For motion compensating joints, the dimensions must be designed to absorb the maximum motion expected. A minimum cross-section of 3x5 mm must be adhered to for the joint. The joint design must comply with the applicable standards and regulations. To avoid 3-edge adhesion, backfill with a suitable material if necessary (preferably Ramsauer 1050 round profile closed-cell). **For fire protection applications, backfilling must be carried out using a non-combustible fire protection material, such as our heat-resistant round profile 1051.**

Application of the sealant: 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. The tooling work must be completed within the stated skin formation time. When reworking, good contact with the adhesive surfaces/joint edges must be ensured (use Ramsauer tooling agent).

Post-treatment: Once the joint has been formed, any residue of tooling agent must be removed before it dries, otherwise visual flaws are to be expected. **The sealant can be painted over, however, coating the sealant is not permitted when used as a fire protection product!**

6. Maintenance and care

Ramsauer sealants and adhesives are carefully manufactured using state-of-the-art production processes. This results in high-quality products which, when processed appropriately, enable durable and resistant bonding and jointing. However, in order to guarantee the functionality of the joints and bondings, they need to be checked at regular intervals in accordance with the loads they are exposed to (chemical, mechanical, thermal, UV radiation), to clean them and to renew them if necessary (also see information sheet "Care and maintenance of joint seals").

7. Meets the requirements of IVD instruction sheet

No. 11	Explanations of technical terms used in "fire protection" from the point of view of sealants or joints sprayed with sealants
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. 19-2	Sealing of joints and connections in the roof area. Possible applications of sprayable sealants, assembly adhesives, butyl sealing tapes and profiles. Part 2 Airtight layer.
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

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.

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9. 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, no guarantee can be provided for the quality of the results achieved, which are influenced by the aforementioned circumstances. No legal claim, in whatever form, can be asserted against Ramsauer GmbH & Co KG based on these reference or from a verbal consultation, unless we are guilty of intent or gross negligence in this respect. Ramsauer GmbH & Co KG 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.

