

Acrylic fire protection with fire resistance class up to S 120, foaming from 200°C, paintable, Switzerland: fire rating 5.3, VKF no. 23'316

Application areas

Wisacryl-BSA designed to prevent the spread of fire and smoke through joints and openings like e.g.

- for fire-retardant constructions, mainly in the interior of buildings and ships
- for connection joints on doors and windows made of wood and metal
- for fire protection joints on walls and ceilings
- for pipe and cable penetrations
- ideal for fire prevention specialists, door construction, carpenters, painters, plasterers, interior finishing

Product benefits

- up to 2 h impermeable to fire and fire gases
- quick-drying
- paintable / recoatable
- outstanding processing
- elastic, with plastic components
- good sound insulation
- water-based
- solvent-free (VOC-free)
- neutral odour
- for indoor and outdoor use
- good adhesion to most substrates
- off-white tone between RAL 9016 and RAL 9010

Base

ready for use, physically drying, elastoplastic acrylate dispersion sealant

Restrictions

Not suitable for oil and bitumen-containing substrates, PE, PP, Teflon[®], glass, waxy substrates, permanently damp areas, joints standing in water. Not recommended for expansion joints in outdoor areas. Elasticity decreases at low temperatures. Our range of products offers you a choice, like e.g. Wikoplast-BHW fire protection hybrid.

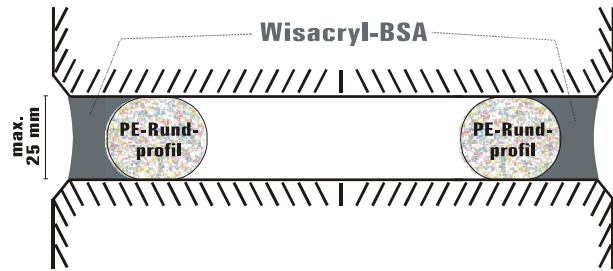
Cleaning agents

Wisatyp TL 16 for cleaning non-absorbent adhesive surfaces and fresh product residues. Fresh sealant can also be removed with a damp cloth. To wash your hands, please use water and soap.

Fire protection properties

VKF-number	23'316 (Association of Cantonal Fire Insurances)
Fire index number	Switzerland: 5.3
Testing institutes	Test reports from Swissi Process Safety GmbH, 2012 and TÜV SÜD Schweiz AG, 2017

Preventive fire protection



Double-sided joint
between concrete
elements
(fire protection wall)

	One-sided joint	Double-sided joint (according to diagramm)
Fire resistance class (at 10 mm joint depth)	S 30	S 120
Tightness of the joint in case of fire	>30 min	>120 min

Note: The independent fire protection tests of Wisacryl-BSA were carried out with a 25 mm wide joint between non-combustible concrete elements with a thickness of 215 mm.

The joint depth was 10 mm. A 30 mm diameter PE round profile was used as the backfill material (see diagramm).

Deviations from this arrangement can have a negative effect on the fire resistance of Wisacryl-BSA. This applies in particular to:

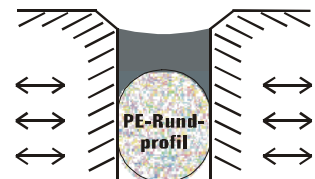
- joints wider than 5 mm 25 mm
- joints less deep than 10 mm
- joints on combustible materials
- a smaller distance between the two joints

Fire resistance is improved when non-combustible backfill is used behind or instead of the PE round profile, like e.g. Wisabax BSF 1 fire protection joint cord, Wikofix FBD 550 fibreglass fire protection seal, Wikofix ceramic tape, mineral wool etc. Quantitative statements for modified arrangement types can only be made by examining the entire element.

Processing

The bonding surfaces must be sound, dry and free of dust and grease. Pre-coat highly absorbent and porous substrates with Wi-Primer V-01. Clean non-absorbent surfaces with Wisatyp TL 16. Check treated and non-absorbent surfaces with an adhesion test. In most cases adhesion can be improved with Wi-Primer V-03.

Before sealing, the joints must be pre-filled by pressing in a durable, preferably convex backfill material so that there is an enlarged adhesive surface on the joint flanks.



For this purpose, depending on the application, we recommend from our product range:

- Wisabax BSF 1 fire protection joint cord
- Wikofix FBD 550 fiberglass fire protection seal
- Wikofix ceramic tape
- Wisabax BS round profiles
- Wisabax PE round profiles
- Wisabax PUR round profiles


We recommend masking the edges of the joint with masking tape to ensure a clean and straight joint.

Follow the rules for joint dimensioning.

The sealant must be sprayed in such a way that sufficient pressure is exerted on the joint flanks. In particular, make sure that no air bubbles are trapped in the joint sealing compound. Smooth the pressed-in sealant with a suitable joint filler before skin formation. Do not use an aqueous smoothing agent.

Masking tapes must be removed immediately after spraying and smoothing.

Density	ca. 1.6 g/ml
Consistency	pasty, firm
Skin formation	ca. 5 min (max. 25 min) under normal conditions (+20 °C, 60 % rel. humidity)
Max. total deformation	ca. 7.5 % (under continuous strain in practice)
Volume shrinkage	ca. 12 - 15 by volume-%
Breaking elongation	ca. 350 % (acc. to DIN 53504)
Processing temperature	from +5 °C up to +30 °C (sensitive to frost during the setting time)
Setting time	ca. 2 - 4 days if the joint is 5x5 mm (depending on temperature and humidity), correspondingly longer for larger joints
Recoatability	After complete drying, good coatability with most water-based and synthetic paints (excluding mineral colours). If painted too soon or if the joints are shifted too much, the paint can crack. Similarly, overpainting with (highly filled) water-based paints can lead to paint cracking. It is advisable to test the compatibility with the colours concerned before application.
Repairing	Can be repaired with the same material; e.g. to equalise the volume loss after drying with a second application.

Shore A hardness	ca. 50
E-modulus 100 %	ca. 0.5 N/mm ² (acc. to DIN 53504 S2)
Temperature-resistant	from -20 °C up to +75 °C (after complete cross-linking)
Frost resistance	limited frost resistance up to -15 °C (during transport)
Substrates	Beton, aerated concrete, masonry (bricking), stone, marble, plaster, ceramics, wood, wood-based materials, pre-treated metals, various plastics, such as PVC-hard, polystyrene and many other common construction materials. For further surfaces, you will need to carry out your own tests.
Certificates / Norms	VKF approval no. 23'361 EN 15651-1: F EXT-INT
Further information	 You can find more information about this product (link to the product on our homepage, safety data sheet, certificates, special enquiries etc.) under the adjacent ISOPIN QR code.
Item no. / Colour	BSA 1192 white - cartridge à 310 ml
Delivery form	carton box of 12 cartridges à 310 ml
Shelf life	In closed original packaging, protected from direct sunlight and stored in a dry place between +15 °C and +25 °C, the official shelf life is at least 24 months from date of production (the printed expiry date is decisive). Attention: At storage temperatures >50°C (assembly vehicle) the product tends to foam.

Safety and disposal: Familiarise yourself with the valid Safety Data Sheets (SDS) for the products used. All applicable safety regulations and disposal instructions must be observed.

Observe: All information is based on careful examinations in the labs and our previous practical experience. They are non-committal notes. Due to the many materials that are marketed and the different processing methods, which we cannot influence, we can, of course, not assume any warranty, including under patent-law, for the result of your work. We recommend performing sufficient own tests to find out if the product meets the respective requirements. In addition, we refer to our terms and conditions of sale, delivery and payment, available at www.wisabax.ch/agb.html. © Wisabax AG - This technical data sheet replaces all older versions.

Have you noticed an unclear formulation or an error? Thank you for your feedback. In case of doubt, the German version of the technical data sheet applies.