Technical Data Sheet

Wisacryl®-BSA

Fire protection acrylic with fire resistance class up to S 120, foaming as of 200°C, paintable, Switzerland: Fire protection index 5.3, VKF no. 23'316

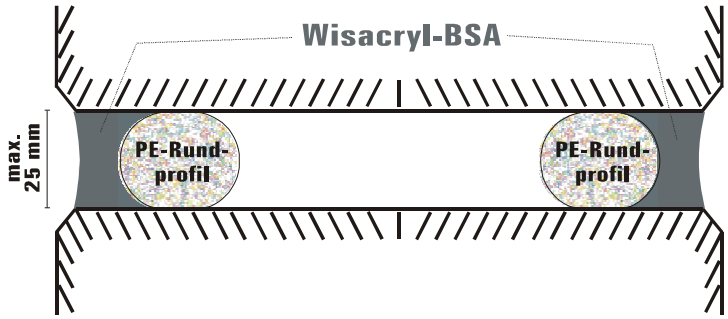
Application

Wisacryl-BSA is a fire protection acrylic for fire inhibiting constructions, mainly in the interior of buildings and ships. It is used, e.g. for connection joints at wood and metal windows/doors, joints at (fire protection) walls, ceilings and in pipe and cable pass-through. Wisacryl-BSA is odourless and non-corrosive.

Limitations

Do NOT use Wisacryl-BSA on oil and bitumen-containing undergrounds, PE, PP, Teflon and glass. Not suitable for joints in water. Also: Elasticity reduces at low temperatures.

Preventive fire protection



Bilateral joint between concrete elements (fire protection wall)

	Unilateral joint	Bilateral joint (according to sketch)
Fire resistance class (at 10 mm joint depth)	p 30	p 120
Tightness of the joint in case of fire	> 30 min	> 120 min

Note: The independent fire protection inspections of Wisacryl-BSA were performed with a 25 mm wide joint between non-flammable concrete elements with a thickness of 215 mm. The joint depth was 10 mm. The backfilling material used was a PE round profile with 30 mm diameter (cf. sketch). Deviations from this structure may negatively influence the fire resistance of
Wisacryl-BSA. This specifically applies for: Joints wider than 25 mm, joints shallower than 10 mm, joints at flammable materials or lower distance between the two joints. The fire resistance can be positively influenced by additional, non-flammable backfilling materials behind the RE round profile, such as ceramics fibre tapes, rock wool, etc. Quantity statements at changed placement types can only be made by inspecting the entire element.

Processing

The adhesive areas must be capable of bearing load, clean, dust- and grease-free. Prime strongly absorbent and porous undergrounds (for more information, see item on primer). The joints to be sealed must be at least 4 mm wide and 4 mm deep. The maximum joint width should not exceed 25 mm, the maximum joint depth 14 mm. Wisacryl-BSA is most elastic when joints in excess of 10 mm have a joint depth of not be more than half the joint width. Joints must be pre-filled before sealing by pushing in a resilient, non-absorbent, backfilling material that must be as convex as possible, so that an enlarged adhesive area remains at the joint flanks (e.g. closed-cell PE round profile). It is recommended to tape off the joint edges with glazing tape to warrant a clean and straight joint.
The sealant must be injected so that there is a sufficient pressure effect on the joint flanks. Specifically observe that no bubbles are enclosed in the joint sealer. Smooth the pressed-in sealant with a suitable spatula immediately. Masking tapes must be removed immediately after injection and smoothing. Sealant must be protected from rain until sufficient skin formation has taken place.

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Bonding with quality

VKF number/ **Fire index/** **Fire conduct**	**VKF no. 23'316** (Vereinigung Kantonaler Feuerversicherungen) **Fire index Switzerland 5.3** (test report of Swissi Process Safety GmbH, Basel) Flame-retardant, weak smoke formation, no dripping of the test sample
Density	Approx. 1.6 g/cm^3
Basis	Ready-to-use plasto-elastic acrylate dispersion sealant, physically drying
Consistence	Pasteous, stable
Skin formation	After approx. 5 min at 20°C and 60% relative humidity
Max. overall deformation	Approx. 15 % (permanent in practice)
Loss	Approx. 12-15 volume-%
Curing time	2–4 days for a joint of 5x5 mm and regular conditions. Accordingly longer in larger joints.
Suitability for painting on	Can be painted well with most paint systems after complete drying Painting on too early or under too strong movement of the joints may lead to crack formation in the paint.
Shore A hardness	Approx. 50
E-Module 100%	0. N/mm^2 (according to DIN 53504)
Temperature resilience	-20°C to +75°C (after complete linking)
Elongation at break	350% (after DIN 53504)
Improvement possibility	With the same material
Undergrounds	Concrete, aerated concrete, masonry, stone, marble, plaster, ceramics, wood, metals, most plastics common on construction sites and many other undergrounds.
Cleaning	Wisatyp TL 16 has proven its worth in practice for cleaning and degreasing of most non-absorbent adhesive areas. Wash hands with water and soap.
Primer	For non-absorbent adhesive surfaces, primer is usually not necessary. However, we recommend performing an adhesive test first. In many cases, Wi-Primer V-03 can improve adhesion. Strongly absorbent and porous undergrounds with Wi-Primer V-06 (strengthen).
Processing temperature	Ideal between +5 °C and +35 °C. Frost-sensitive while curing.
Processing devices	Commercial cartridge guns
Item no./colour	**BSA 1192 white**
ADR / SDR	N/A
Shelf Life	According to best-before date in closed original packaging, at cool and **frost-free** storage below +25°C (at least 1 year after production). **Attention:** The product tends to form foam at storage temperatures > 40°C (assembly vehicle).
Delivery form	Boxes with 12 cartridges à 310 ml.