

## Fire retardant hybrid; elastic sealant with fire protection properties up to 4 h according to EN 1366-4, paintable

### Application areas

Elastic, fire-retardant 1C hybrid sealant

- for preventive fire protection in construction and in the industry; verhindert die Ausbreitung von Feuer, Rauch und giftigen Gasen
- suitable for both vertical and horizontal joints between wall / floor and wall / ceiling
- furthermore (fire protection test): Wikoplast-BHW in contrast to conventional hybrid sealants, can also be used for sealing glass rebates in windows and doors
- ideal for fire prevention specialists, joint specialists, drywall construction, metal construction, window manufacture, carpenters, vehicle -manufacturing, handicraft and industry

### Product benefits



- fire-retardant up to 4 h, tested according to EN 1366-4
- suitable for joints up to 25 % total movement absorption with correct joint dimensioning
- paintable / recoatable, lacquerable
- solvent-free (VOC-free)
- fulfils GEV-Emicode EC 1 Plus
- soft elastic, permanently elastic
- for indoor and outdoor use, also at low temperatures
- neutral cross-linking
- almost odourless
- free of shrinkage and bubbles
- no risk of corrosion
- good UV, weather and ageing resistance
- good adhesion to most, even slightly damp substrates like metals, masonry (bricking), gypsum fibreboards, wood-based materials, many plastics etc.

### Restrictions

Not suitable for PE, PP, PC, PMMA, PTFE (Teflon®), neoprene, bitumen, natural stone, swimming pool joints (chlorine), waxy substrates.

### Base

MS-Polymer (hybrid); cross-linking is chemically neutral with air humidity, therefore allow the sealant to air freely.

### Cleaning agents

Wisatyp TL 16 for cleaning non-absorbent adhesive surfaces and fresh product residues. The cured product can normally only be removed mechanically. To wash your hands, please use water and soap.

### Processing

Acclimatise the product before processing.  
This product is for specialist trained personnel.

The bonding surfaces must be sound and free of dust and grease. Pre-coat absorbent and porous substrates with Wi-Primer V-02. Use Wi-Primer V-01 as a solvent-free alternative.

Clean non-absorbent surfaces with Wisatyp TL 16.

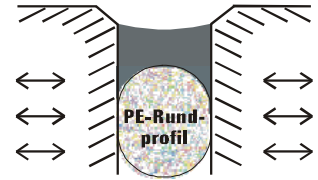
Check treated and non-absorbent surfaces with an adhesion test.

Follow the rules for joint dimensioning.

Minimum joint width: 5 mm, maximum joint width: 30 mm.

Minimum joint depth: 5 mm. The joint depth must be adapted to the values specified in the fire protection tests (generally from 10 mm).

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

We recommend masking the edges of the joint with masking tape to ensure a clean and straight joint. The sealant must be sprayed in such a way that sufficient pressure is exerted on the joint flanks. Smooth the pressed-in sealant with a suitable joint filler before skin formation. For smoothing joints, our smoothing compound Wikofix GM 52 has proved its worth in practice. We accept no liability for damage caused by the use of commercially available detergents. Masking tapes must be removed immediately after spraying and smoothing.

**Preventive fire protection** This product has been extensively tested using a standard heating curve in accordance with EN 1366-4, version 2006+A1:2010. In addition, this product has been tested in accordance with EN 15882-4:2012 and EN 13501-2+A1:2009.

Before using Wikoplast-BHW, it is essential to study the detailed test reports to ensure that the required fire resistance of Wikoplast-BHW is met.

<b>Density</b>	ca. 1.48 g/ml
<b>Consistency</b>	pasty, firm
<b>Skin formation</b>	ca. 10 min (under normal conditions +23 °C, 50 % rel. humidity )
<b>Shrinkage</b>	<3 % in volume
<b>Max. total deformation</b>	25 % in practice for standard-compliant joints
<b>Setting time</b>	ca. 2 - 3 mm on the first day, then decreasing in depth

<b>Recoatability</b>	<p>Can be painted over after complete cross-linking with most paint systems, except mineral paints. Due to the many colour formulations used in practice, own tests are necessary. The use of alkyd resins and synthetic resin paints may cause a delay in the drying process.</p> <p>Hint: Moving joints generally should not be painted over, as most paints cannot cope with large movements, which can lead to cracking of the paint later on.</p>
<b>Shore A hardness</b>	ca. 25
<b>Temperature resistance</b>	from -40 °C until +90 °C (after complete cross-linking), for a short time even at higher temperatures
<b>Breaking elongation</b>	350 % (acc. to DIN 53504 S2)
<b>E-modulus 100 %</b>	ca. 0.5 N/mm <sup>2</sup>
<b>Repairing</b>	can be repaired with the same material
<b>Tensile strength</b>	0.96 N/mm <sup>2</sup>
<b>Substrates</b>	Beton, compact masonry, facade elements, gypsum fibreboards, ceramics, enamel, aluminium, steel, galvanized steel, non-ferrous metals, PVC-hard, polyester, epoxy, polystyrene foam (EPS/XPS), many thermoplastics and duroplastic plastics (except PE and PP), treated wood, wood-based materials and many other materials.
<b>Processing temperature</b>	from +5 °C until +40 °C
<b>Frost resistance</b>	until -15 °C (during transport)
<b>Certificates / Norms</b>	<ul style="list-style-type: none"> <li>▪ PEUTZ fire protection test reports for Wikoplast-BHW fire protection hybrid sealant <ul style="list-style-type: none"> <li>✓ for joints between stone and stone</li> <li>✓ for joints between plasterboard and stone</li> <li>✓ for joints between plasterboard and plasterboard</li> <li>✓ for joints between stone and wood</li> <li>✓ for joints between stone and metal (steel)</li> <li>✓ for joints between stone and stone (in combination with Wisapur-MS fire protection foam)</li> </ul> </li> <li>▪ GEV-EMICODE EC 1 Plus</li> <li>▪ EN 15651-1: F EXT-INT CC 20 HM (façade joints)</li> <li>▪ EN 15651-2: G-CC 25 LM (floor joints)</li> </ul>
<b>Further information</b>	<div style="display: flex; align-items: center;">  <p>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.</p> </div>
<b>Item no. + Colour</b>	<b>BHW 5102 white</b> - cartridge à 290 ml Further colours upon request.
<b>Delivery form / Content</b>	carton box of 12 cartridges à 290 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 18 months from date of production (the printed expiry date is decisive). Over storage time, viscosity increases and reactivity decreases.

**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](http://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.