Technical Data Sheet

Wikoplast®-HPW

Soft-elastic, non-yellowing, single-component hybrid-sealant for expansion joints and connection joints

Application

Wikoplast-HPW is a solvent-free, permanently elastic hybrid sealant that can be painted on. It is intended for moving joints and connection joints in structural engineering. The sealant is suitable for inside and outside, e.g. for joint specialists, window installers, painters, carpenters, etc.

Wikoplast-HPW has good adhesive properties on most undergrounds on construction sites, including plaster, masonry, metal, PVC-hard, wood materials, etc. For more details, see items *Limitations* and *Undergrounds*.

Basis

Wikoplast-HPW is a high-quality, soft-elastic sealant on hybrid polymer basis. The sealant is nearly odourless, silicone free, solvent free (VOC-free) and contains no isocyanates. Linking takes place chemically neutrally in air humidity. Therefore, let the material air freely. There is no danger of corrosion.

Limitations

Wikoplast-HPW is not suitable for PE, PP, Teflon, bitumen and wax-containing undergrounds, or for use in standing water. Adhesion on glass under direct influence of UV radiation on the adhesive area is only warranted conditionally in the long term. Therefore, we recommend only our Wikosil sealants suitable for this for sealing glass.

Processing

The adhesive areas must be capable of bearing load, dry, dust- and grease-free. Pre-paint porous and absorbent undergrounds with Wi-Primer V-06. Clean non-absorbent undergrounds with Wisatyp TL 16. For treated and non-absorbent surfaces, we recommend performing an adhesive test first.

The joints to be sealed should be at least 4 mm wide and 4 mm deep. For joints in excess of 10 mm, the joint depth must 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. Our closed-cell PE round profiles or PE glazing tapes have proven their worth for this purpose.

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 adhesive surfaces. Smooth the pressed-in sealant with a spatula or the finger-spatula Wik o fix no. 1 before formation of skin.

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Bonding with quality

Density	1.35 g/ml
Consistency	Pastose, stable.
Skin formation	Approx. 50 min under regular conditions (+23 °C, 60% rel. humidity)
Volume loss	Less than 3 volume-%.
Maximum permissible total deformation	25% at permanent load in practice
Curing time	Approx. 2 mm per day
Suitability for painting on	Can be painted on with most paint systems. Own tests required. Note: Moved joints generally should not be painted on, since most paints cannot take larger movements, which will lead to crack formation of the paint later.
Shore A hardness	Approx. 22
Temperature resilience	-30 °C to +80 °C (short-term up to +120°C) after completed linking
Elongation at break	Approx. 700%
E-Module 100%	Approx. 0.5 MPa
Improvement	With the same material
Undergrounds	Concrete, plaster, facade elements, ceramics, enamel, aluminium, steel, zinc-plated steel, non-ferrous metals, PVC-hard, polyester, many thermal and duroplastic plastics (except for PE and PP), various paint systems, MDF, wood materials and many other materials (cf. primer table).
Adhesion and pre-treatment	For non-absorbent undergrounds, cleaning with Wisatyp TL 16 is usually sufficient. Pre-paint absorbent and porous undergrounds with Wi-Primer V-06. We recommend Wi-Primer V-07 for natural stones.
Processing temperature	From +5 °C to +40 °C.
Cleaning agents	Wisatyp TL 16 for cleaning of the non-absorbent adhesive areas. Clean hands with water and soap.

Order no.	**290 ml cartridges:**	**400 ml foil bags:**	**600 ml foil bags:**
Colours	**HPW 6182 white**	**HPW 6182.400 white**	**HPW 6182.600 white**

Other colours are available in MS Polymer quality; see Wikoplast-MSW and –MSD.

Marking	The product is marking-free in the sense of the hazardous substances ordinance.
Precautionary measures	Avoid eye contact. Flush with lots of water if required.
Frost resilience	Wikoplast-HPW is frost-resilient at up to -15 °C during transport.
Shelf life	At least 12 months from production (see printed-on best-before date) in original packaging and when stored dry between +5 and +25 °C.
Delivery form	Standard: Boxes à 12 pcs. (cartridges or foil bags)

Observe: All information are 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. Apart from this, we refer to our sales, delivery and payment conditions.