Technical Data Sheet

Wikoplast®-MSW

www.wisabax.ch

Soft elastic one-component hybrid sealant based on MS-polymer for expansion joints and joints in construction and industry

Application areas

High-quality sealant for joints and connection joints with heavy movement

- in the façade areas (building construction)
- in window and door construction
- ideal for joint specialists, window fitters, painters, plasterers, carpenters, metal construction specialists, plumbers etc.
- for bonding vapour diffusion-open and vapour diffusion-tight window foil strips (Wikofix-FBA / Wikofix-FBI)

Product benefits

- recoatable, lacquerable
- solvent-free (VOC-free)
- fulfils GEV-Emicode EC 1 Plus
- soft elastic (low modulus)
- permanently elastic
- for indoor and outdoor use, also at low temperatures
- neutral cross-linking
- almost odourless
- no risk of corrosion
- good adhesion to most, even slightly damp substrates
- free of shrinkage and bubbles
- good UV, weather and ageing resistance

Base

MS-Polymer (hybrid); cross-linking is chemically neutral with air humidity, therefore allow the sealant to air freely. Due to minor differences in the formulation of MSW 61XX and MSW 62XX there are two CE performance declarations (DoP's).

Restrictions

Not suitable for PE, PP, PC, PMMA, PTFE (Teflon®), neoprene, bitumen, natural stone, swimming pool joints (chlorine), waxy substrates.
Adhesion to transparent materials under the direct influence of UV rays on the adhesive surface is only guaranteed to a limited extent in the long term.
Not recommended for due to its slightly abrasive effect, it is not suitable for painted surfaces, not even for stove-enamelled aluminium, mirrors.

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

The bonding surfaces must be sound and free of dust and grease.

Pre-coat absorbent and porous substrates with Wi-Primer V-07.
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.

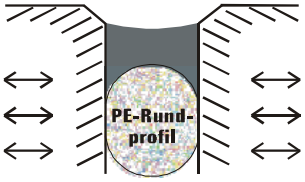
In many cases, the adhesion of delicate surfaces can be significantly improved with the following primer: Wi-Primer V-23 or Wi-Primer V-03.

Follow the rules for joint dimensioning.
Minimum joint width: 5 mm, minimum joint depth: 5 mm

	Joint width							
Joint depth	**4 mm**	**5 mm**	**6-7 mm**	**8-10 mm**	**12 mm**	**15 mm**	**20 mm**	**25 mm**
4 mm								
5 mm								
6 mm								
7 mm								
8 mm								
10 mm								
12 mm								

Optimum dimensions for moving joints
Limit dimension for slightly moving joints
Dimension for **non-stressed joints**

Before sealing, the joints must be pre-filled by pressing in a resistant, non-absorbent, preferably convex backfill material so that there is an enlarged adhesive surface on the joint flanks. For this purpose we recommend PE round profiles from our product range.



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 spatula 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.

Density
ca. 1.4 g/ml (quality MSW 62xx)
ca. 1.3 g/ml (quality MSW 61xx)

Consistency
pasty, firm

Skin formation
ca. 30 min (quality MSW 62xx)
ca. 15-20 min (quality MSW 61xx)
under normal conditions (+23 °C, 50 % rel. humidity)

Volume shrinkage
<3 % by volume

Max. total deformation
25 % under continuous strain in practice

Setting time
ca. 2 - 3 mm on the first day, then decreasing in depth

Recoatability
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.

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.

Shore A hardness	ca. 25 (quality MSW 62XX) ca. 18 (quality MSW 61XX)
Temperature resistance	from -40 °C up to +90 °C (after complete cross-linking)
Breaking elongation	ca. 450 - 700 % (subject to measurement method)
E-modulus 100 %	ca. 0.7 - 1.0 N/mm² (acc. to DIN 53504) ca. 0.3 N/mm² (acc. to DIN 53504)
Revovery capacity	ca. 86 % (very high) quality MSW62XX >70 % quality MSW 61XX
Tensile strength	ca. 1.2 N/mm² quality MSW 62XX (acc. to DIN 53504) ca. 1.0 N/mm² quality MSW 61XX (acc. to DIN 53504)
Repairing	can be repaired with the same material
Substrates	Concrete, plastering, masonry, facade elements, wood-based materials, aluminium, steel, galvanized steel, non-ferrous metals, ceramics, PVC-hard, polyester, many thermoplastics and duroplastic plastics (except PE and PP), many EPDM sealing foils. For further surfaces, you will need to carry out your own tests.
Processing temperature	from +5 °C up to +40 °C
Frost resistance	up to -15 °C (during transport)
Certificates / Norms	▪ GEV-EMICODE EC 1 Plus ▪ EN 15651-1: F EXT-INT CC 25 LM (façade joints) ▪ EN 15651-4: PW EXT-INT CC 25 LM (floor joints), only applies to quality MSW 62XX

Further information

MSW 62XX

ISOPIN

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.

MSW 61XX

ISOPIN

Item no. + Colour	tubular bag of 600 ml
In two qualities: MSW 61XX (traditional*) MSW 62XX (modern)	**MSW 6122.600 white*** **MSW 6128.600 light grey*** **MSW 6225.600 joint grey** **MSW 6123.600 concrete grey*** (ca. RAL 7030) **MSW 6227.600 anthracite**
Delivery form	Packing unit of 12 tubular bags of 600 ml Additional standard colours see quality Wikoplast-HPW and Wikoplast-MSN.

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 15 months from date of production (the printed expiry date is decisive).

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.