



Technical Data Sheet

INDUFLEX-MS INDUFLEX-VK6065

Art.-No. 2 06402

MS Hybrid-Polymer joint sealant for processing plants for effluent slurry, manure slurry, silage effluent

- MS Hybrid-Polymer - joint sealant
- Thixotropic
- Elastic
- Stable against water under pressure up to a maximum of 1.0 bar (when stably back-filled)
- Assured bond to concrete, cement-based screeds, steel, masonry work etc.
- Impenetrable to liquids even under deformation
- High chemical resistance against organic acids
- Free from solvents
- Assured bond to non-absorbent substrates
- High UV resistance

Areas of application:

INDUFLEX-MS is used in interior and exterior areas as an elastic joint sealant in construction:

- Waste water inspection shafts
- Sewer pipes
- Pre-cast concrete sections, e.g. drive-in silos
- Concrete overflow gullies
- Concrete storage containers
- Processing plants for effluent slurry, manure slurry, silage effluent

Technical Data:

Basis:	MS hybrid polymer
Colour:	black (RAL 7021)
Consistency:	thixotropic
Density:	approx. 1.35 g/cm ³
Solids content:	100%
Solvent:	none
Max. reliable deformation (ISO 11600):	20%
Skin formation time ^{*)} :	approx. 15 mins.
Through hardening rate ^{*)} :	approx. 3 mm/24 hrs
Tack free time (EN ISO 868) ^{*)} :	after approx. 4 hrs
Shore A hardness:	approx. 55

Volume change (EN ISO 105653):	< 4%
Tensile stress value:	approx. 1.20 N/mm ² (DIN 53504)
Breaking strength:	approx. 1.50 N/mm ² (DIN 53504)
Temperature resistance:	from -40° C to +100° C
Volume change:	0
Cleaning:	thoroughly clean tools immediately after use with an appropriate cleaner, e.g. ASO-R001
Packaging:	600 ml sausage
Storage:	cool and dry; cartridge: 9 months in the original unopened container, min. +5° C to max. +25° C. Use opened containers promptly.

^{*)} These values are valid at +23° C and 50% relative humidity.

Substrate:

Cement-based surfaces:

- Concrete quality: min. C 20/25
- Screed quality: min. EN 13813 CT-C25-F4
- Age: min. 7 days (or min. 70% of the 28 day final strength)
- Tensile adhesion strength: > 1.5 N/mm²

Steel:

- Steel rails/profiles
- Steel gutters
- Steel pipes

Substrate preparation:

The contact area to which the product will be applied must:

- be dry, sound, load-bearing and have a good grip
- be free from separating and adhesion inhibiting substances such as dust, laitance, grease, oil, plasticizers, rubber marks, rust, paint residues etc.

INDUFLEX-MS

Dependent on the particular substrate the following preparation measures are to be carried out:

Cement-based surfaces:

- Abrasion

Steel surfaces:

- Bright metal (Sa 21/2)

Design requirements:

The design requirements for joint construction must be as given in accordance with DIN 18540 as well as the IVD data sheet No.1 (Industrial Sealants Association) and verified on site.

In particular the joint width must be calculated so that the total joint movement is not greater than that suitable for the joint sealant.

Product preparation:

INDUFLEX-MS is delivered ready-for-use in 600 ml sausages and is to be used with a suitable gun. Strike off the sealant with a suitable smoothing tool and press onto the joint edges and backfilling profile or stable backfilling material. Within the product working time smooth the joint surface if required by lightly smoothing over with a spatula or soft brush with the aid of a smoothing solution.

Method of application / consumption:

1. Prepare the joint void by blocking with a suitable closed cell backing strip. In the process, ensure that the backing strip does not become damaged.
2. Prime the joint edges. Pre-treat highly absorbent mineral-based joint edges with INDU-Primer-S, non-absorbent joint edges with INDU-Primer-N.
3. Before applying sealants, protect joint flanks from contamination with a self adhesive strip.
4. Apply the joint sealant: INDUFLEX-MS is installed with a suitable caulking gun.

The consumption of INDUFLEX-MS is calculated using the formula:

joint width (mm) x filling depth of the sealant (mm) = ml/m joint.

Example:

Joint dimension:

Joint width 20 mm and fill depth 17 mm = 1.75 m per 600 ml sausage.

During the curing time exclude early stresses (e.g. very high temperature differences; vehicular traffic with direct contact).

Important advice:

- Higher temperatures reduce the working time. Lower temperatures lengthen the working time and setting time.
- The bond between the individual materials can be heavily impeded through the influence of dampness or contamination between the two layers.
- Applications that are not clearly mentioned in this technical data sheet may only be carried out after consultation and written confirmation from the Technical Services Department of SCHOMBURG.

Please observe a current EU health and safety data sheet.

Chemical resistance (extract):

Freshwater, seawater, fertilizer, household effluent, industrial effluent, organic acids such as e.g. acetic acid.