



Technical Data Sheet

INDUFLEX-PU

Elastic 1K-PU jointing compound

Art. No. 2 06415

CE	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold, Germany 16 2 06415	
EN 15651-4 INDUFLEX-PU Joint sealant for movement joints in floors for interior and exterior areas (suitable for use in cold climatic zones) PW EXT-INT CC	
Reaction to Fire: Class E Water impermeability and air tightness: no failure Tensile behaviour under pre-stressing: $\leq 10\%$ Loss of volume: no failure Tensile strength: no failure Adhesion / extension behaviour after immersion in water after 28 days: no failure Change in secant modulus $< 50\%$ Adhesion / extension behaviour after immersion in salt water after 28 days: no failure Change in secant modulus $< 50\%$ Tensile behaviour under pre-stressing in cold climatic zones (-30°C): no failure Durability: passed	

- Elastic
- Good chemical and mechanical resistance
- Low notch sensitivity
- High tear resistance
- Frost-resistant and ageing-resistant
- Permissible total deformation: 25 %
- Is suitable for load class A, load class B and load class C

Areas of application:

INDUFLEX-PU is used for the elastic waterproofing of floor, connection and wall joints, e.g. in:

- Car parks, underground garages, concreted open spaces, warehouses and production halls
- Sewage and waste water treatment plants
- Tunnel construction
- Food industry, e.g. canteen kitchens, dairies, etc.

Technical data:

Basis:	1-comp. polyurethane (moisture curing)
Colour:	grey
Consistency:	non slump
Density*:	approx. 1.30 g/cm ³
Ambient and substrate temperatures:	min. +5 °C max. +35 °C at max. 80 % rel. humidity
Skin formation*:	approx. 60-90 min.
Curing time*:	approx. 2 mm/24 hrs.
Joint width:	min. 10 mm to max. 40 mm
Recoverability:	> 80 %
Volume reduction (DIN 52451):	< 6 %
Max. permissible Deformation:	approx. 25 % of the joint width
Tensile stress*:	approx. 0.6 N/mm ² at 100 % elongation
Tear resistance:	approx. 8.0 N/mm ²
Water pressure resistance*:	approx. 3 bar
Temperature resistance:	-40 °C to +80 °C
Shore-A-hardness:	approx. 35
Cleaning:	Immediately after use, clean tools meticulously with ASO-R001.
Packaging:	600 ml bag
Storage:	Frost-free, cool and dry, $\geq +10^{\circ}\text{C}$ to $+25^{\circ}\text{C}$, 15 months in the original unopened container, use up opened container promptly

* at +23 °C and 50% rel. humidity

INDUFLEX-PU

Substrate:

The contact surfaces to be treated in the joints must be:

- Dry, firm, load-bearing and grippy
- Free of separating and adhesion inhibiting substances, e.g. dust, slurry, grease, hydrophobing agents, paint residues, etc.
- Protected from moisture penetration from the rear

Substrate preparations must be carried out in compliance with DIN EN 14879-1:2005, 4.2 et seq.

Depending on the texture of the substrate to be treated, suitable mechanical measures, e.g. milling, grinding, grit blasting, etc., are to be used to achieve a structured, load-bearing surface.

In accordance with the respective substrate, the following criteria must also be met:

Cement-based surfaces:

- Concrete quality class: min. C 20/25
- Quality of screeds: min. EN 13813 CT-C25-F4
 - Tensile adhesion strength: $\geq 1.5 \text{ N/mm}^2$
 - Age: min. 28 days
- Quality of the plaster: min. P IIIa/P IIIb
 - Tensile adhesion strength: approx. 0.8 N/mm^2
- Moisture content: < 4% (CM method)

Metallic surfaces:

- Steel surface purity: min. SA 2½

Note:

The structural prerequisites for joint formation must be met in accordance with DIN 18540 or IVD technical data sheet no. 1 and must be checked on site. In particular, the joint width must be dimensioned in such a way that the total movement of the joint is not higher than is suitable for the jointing compound.

In the case of building components that are driven over, the joint edges must be prepared for grouting by chamfering. The chamfer must not be filled. In case

of high water pressure loads, a supplementary, stable underlining of the ASO-SR backfill cord is recommended (e.g. by sand interspersation and/or Styrodur strip insertion).

Application:

INDUFLEX-PU is delivered ready to use in bags of 600 ml. The application is carried out by means of common tubular bag cartridge guns. Strike off the joint compound with a suitable smoothing tool, pressing on the joint edges and the backfill. If necessary, level the joint surface within the pot life by lightly brushing over with the smoothing wood or a soft brush using a smoothing agent.

Method of application/Consumption:

1. Insert the ASO-SR backfill cord into the prepared joint space. Ensure that the filling cord is not damaged.
2. Priming of the joint edges:
Cementitious, highly absorbent joint edges must be primed beforehand with INDU-Primer-S, non-absorbent joint edges with INDU-Primer-N.
3. Before grouting, protect the joint edge areas with adhesive tape.
4. Inserting the joint compound:
INDUFLEX-PU is applied with a suitable cartridge gun.

The material consumption of INDUFLEX-PU can be calculated as follows:

Joint width (mm) × filling depth of jointing compound (mm) = required quantity of jointing compound (ml) per linear metre of joint.

Example:

Joint width 20 mm and filling depth 17 mm = 340 ml / m jointing compound requirement

During the curing period, early loads (e.g. very high temperature differences; traffic loads with direct contact) must be avoided.

INDUFLEX-PU

Important advice:

- INDUFLEX-PU must not be used in swimming pool areas.
 - INDUFLEX-PU must not be painted over.
 - Higher temperatures shorten the pot life. Lower temperatures increase the application and hardening times. The rate at which material is consumed also increases at lower temperatures.
 - Colours: Slight colour differences, caused by different production batches and raw material fluctuations, are unavoidable. Consider this during coating application work. Neighbouring surface sections should be coated using the same production batch (same batch no. on the delivered packaging).
 - The bonding between the individual layers can be strongly disrupted between the individual application steps due to the effects of dampness and contamination. Coating work requires a substrate temperature of at least 3 °C above the dew point temperature.
 - If longer waiting times arise between the individual application steps or surfaces that have already been treated with liquid resin are coated again after an extended period of time, the old surface must be well cleaned and thoroughly ground. Then apply a complete pore-free new coating.
 - After they have been applied, surface protection systems must be protected against dampness (e.g. rainwater, condensation water) for approx. 4-6 hours. Moisture causes a white colour and/or stickiness on the surface and can cause problems during hardening. Discoloured and/or sticky surfaces must be removed and reworked, e.g. through grinding or shot blasting.
 - The indicated consumption quantities are calculated values without additions for surface roughness and absorbency, level compensation, and residual material in the container. We recommend a calculated safety addition of 10% on top of the calculated consumption quantities.
- Applications that have not been clearly mentioned in this technical data sheet may only be carried out after the technical services of SCHOMBURG GmbH has been consulted, and after the department has confirmed a course of action in writing.
 - Cured product residues are household waste.

Please observe valid EU safety data sheets!

INDUFLEX-PU

Resistance list

Test fluid	Concentration (%)	Classification		
		(≤ 8 hours)	(≤ 72 hours)	(≤ 14 days)
Inorganic acids				
Hydrochloric acid	30			■
Organic acids				
Citric acid	15			■
Lactic acid	20			■
Alkalies				
Sodium hydroxide	20			■
Ammonia	25			■
Solvent				
Kerosene	neat		■	
Petrol	neat		■	
Diesel	neat		■	
Ethanol	neat	■		
Oils				
Engine oil	neat		■	
Brake fluid	neat		■	
Heating oil	neat		■	
Aqueous solution				
De-icing salt-solution	35			■
Organic surfactants	10			■
Public sewage / slurry				■
Water				■

All data was determined under laboratory conditions at +20°C. Deviations due to higher temperatures, local factors and ambient conditions are possible. Slight visible surface changes or minor swelling, without impeding the functionality of the waterproof membrane cannot therefore be excluded. In the case of doubt, we recommend a suitability test is carried out related to the project.

The rights of the buyer with regard to the quality of our materials are based on our terms and conditions of sale and delivery. Our technical advice team will be happy to advise you in the case of requirements that exceed the scope of the application described here. In order to be binding, a legally binding written confirmation is required. The product description does not release the user from a duty of care. Apply to a test area in the event of uncertainty. This version becomes invalid in the event of a new version being issued.