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SCHOMBURG

Technical Data Sheet

INDUFLEX-PU INDUFLEX-VK6060

Art.-No. 2 06415

Elastic 1-component polyurethane joint sealant for movement joints in floors

CE

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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:	
Tensile behaviour under pre-stressing:	no failure
Loss of volume:	≤ 10%
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 is 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 sensitivity to chamfers.
- High resistance to tear propagation.
- Resistant to weathering and aging
- Approved total deformation: 25%.
- Suitable for load classes A, B and C.

Areas of application:

INDUFLEX-PU is used for the elastic sealing of floor/wall junctions and wall joints in e.g

- parking decks, car parks, underground car parks, concreted open spaces, store and manufacturing shops
- Sewage and waste water treatment plants
- Tunnel construction
- Food industry e.g. industrial kitchens, dairies etc.

Technical Data:

Basis:	1-Comp. Polyurethane
Colour:	grey
Consistency:	thixotropic
Density:	approx. 1.30 g/cm³
Substrate Temperature:	between +5 °C and + 35 °C
Ambient Temperature:	between +5 °C and + 40 °C
Skin formation *):	60 - 90 minutes
Curing rate *):	approx. 2 mm/24 h
Joint Dimensions:	min. 10 mm/max. 40 mm, dependant on mechanical loading
Working Time *):	approx. 2 hours
Shore A hardness *):	approx. 35 after 28 days
Tear Strength:	approx. 8 N/mm
Tension *):	approx. 0.6 Mpa/ 100% elongation
Elongation at Break *):	approx. 700%
Elastic Recovery:	>80%
Approved total deformation:	approx. 25 % of joint width
Service Temperature:	between -40° C and +80° C
Packaging:	600 ml sausages (6 sausages = 1 carton)
Storage:	Frost-free, cool and dry, 15 months in the original unopened packaging, between +10 °C and +25 °C. Use opened packagings promptly.

*) These values relate to +23° C and 50% relative humidity.

Surface preparation:

The contact surface to be treated must be:

- dry, firm, sound and have a good grip
- free from separating and adhesion inhibiting substances such as dust, laitance, grease, oil, rubber marks, paint residues and similar

Design requirements:

The constructive prerequisites of the joint must be according to the IVD leaflet Nr.1. The joint width must be calculated so that the cumulative motion of the joint is not higher than suitable for the sealing material.

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In areas where the joints will be subjected to vehicular traffic, joint edges must be prepared for application by saw-cutting/milling. The joint should be filled to just below the saw-cut (chamfers should not be filled). For high water pressure load, e.g. in sewage and waste water treatment plants, an additional stable back filling should be installed below the backer rod (e.g. sand filling and /or Styrodur-strips).

Mixing Instructions:

INDUFLEX-PUis delivered ready-to-use in 600 ml sausage packs, and is applied with a suitable applicator gun. Using a suitable smoothing tool press the dispensed joint material into the joint flanks and back filling profile. When required the joint surface can be smoothed, within the working time, with a smoothing wood or soft brush by using smoothing liquid.

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-PU is installed with a suitable caulking gun.

Consumption of INDUFLEX-PU:

Example:
Joint dimension:
10 mm joint width and 10 mm filling depth
= 6.0 m per 600 ml sausage.
During the curing time early loads are (e.g. very high temperature differences; Traffic loads with immediate contact) exclude.

Important advice:

- Bonding of subsequent coats (layers) to each other can be negatively affected by the presence of moisture and dirt.
- If a longer waiting time occurs after applying the primer, it must be thoroughly clean and roughened, followed by a fresh application.
- Do not use INDUFLEX-PU in swimming pools.
- Granite and natural stone substrates can generally be treated like concrete surfaces.
- Do not paint over INDUFLEX-PU.
- Do not apply onto bituminous substrates, EPDM and natural rubber or building materials which might bleed oils, plasticizers or solvents, which could attack the sealant.
- Avoid contact of the uncured material with isocyanate substances, e.g. alcohol containing cleaners).
- Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with and written confirmation from the Technical Services Department of SCHOMBURG.

Please observe a current valid EU safety data sheet!

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