

# BFM-flex

## Contraction joint compound flex

### Single-component PU-sealant

- admissible total deformation up to 25% of the joint width
- high mechanical strength
- fuel-resistant



### APPLICATIONS

- for producing standard-compliant floor and connection joints (from 10 mm width)
- for producing contraction joints between concrete components which are subject to mechanical loads from traffic, pedestrians or temperature-dependent movements
- for contraction joints in concrete and screed, which are exposed to static loads or rolling traffic, e.g. in warehouse and production buildings, yards, parking decks, underground car parks, staircases, shopping malls or public buildings etc.
- for joints in municipal sewage and water treatment plants, e.g. pre-aeration basins, primary sedimentation tanks, aeration tanks, secondary sedimentation tanks, sewers, gutters, drainage facilities, pipes, pipe feed-throughs and floor drains
- in tunnel construction
- in cleanrooms
- suitable for areas subject to regular machine cleaning
- for indoor and outdoor applications

### PROPERTIES

- single-component
- elastic
- hardens due to air humidity
- cures without blistering
- good chemical and mechanical resilience
- excellent adhesion

### COMPOSITION

- 1C polyurethane

### SUBSTRATE

#### Properties/tests

- The joints must be clean, dry, dust-free and free of loose elements, mortar residue, grease, formwork oil, release agents, impregnations, old sealants or adhesives or other adhesion-reducing substances.
- The joint widths must be matched to the expected movements.
- Joint width: 10 – 35 mm

#### Pretreatment

- To ensure the right joint depth and to avoid three-sided adhesion, the joints are to be backfilled with a non-absorbent material, e.g. a PE round cord.
- If this is not possible, the joint bottom is to be covered with a separating material, such as PE film.
- Absorbent substrates are to be primed with the tubag BFP-S 2K primer. The flash-off time is approx. 30 - 120 minutes. The primer is to be applied on dry substrate with maximum 4 % by weight of residual moisture.

### PROCESSING

<b>Temperature</b>	<ul style="list-style-type: none"><li>■ Do not process, allow to cure or harden in air, material or substrate temperatures of less than +5°C and over +30°C, in direct sunlight, and/or in strong wind.</li></ul>
<b>Mixing / Preparation / Processing</b>	<ul style="list-style-type: none"><li>■ The product is ready for use.</li></ul>
<b>Processing</b>	<ul style="list-style-type: none"><li>■ Introduce the jointing compound into the joint with the aid of suitable tools, e.g. a hand-held or compressed air gun.</li><li>■ The expansion joint is grouted up to 5 mm below the top edge of the paving or concrete surface so that the tyres of vehicles driving over it cannot come into contact with the jointing material.</li><li>■ The surface is smoothed with an appropriate tool, e.g. a trowel. When doing so, the jointing compound is to be pressed onto the bonding areas and the backfilling material.</li><li>■ To adapt the appearance to the surroundings, the joints can be sanded. To do so, the jointing material is strewn with kiln-dried silica sand during the skin formation stage (up to maximum 1 hour) and this is pressed maximum 0.5-1 mm deep into the sealant. The mechanical properties of the elastic joint are not changed by the sanding process.</li></ul>
<b>Processing / Working time</b>	<ul style="list-style-type: none"><li>■ Skin formation time: approx. 60-90 minutes</li><li>■ The stated times apply for a temperature of +20°C and relative humidity of 65%.</li></ul>
<b>Drying / Hardening</b>	<ul style="list-style-type: none"><li>■ After grouting the joints, these are to be protected from direct sunshine, too rapid drying out and driving rain.</li><li>■ Allow soiling on the stone/concrete surface to dry and remove later from the soiled area.</li><li>■ Complete hardening is reached at maximum width after approx. 14 days.</li></ul>
<b>Cleaning the tools</b>	<ul style="list-style-type: none"><li>■ Clean tools and equipment with suitable solvents immediately after use.</li><li>■ Hardened material can only be removed mechanically.</li></ul>
<b>Notes</b>	<ul style="list-style-type: none"><li>■ The joint design is based on the technical regulations. The joint width should be between 10 and 40 mm according to the standard; the grouting depth should be in a ratio of 1:1 to 0.8:1 to the joint width.</li></ul>

### PACKAGING

- 600 ml/tubular bag

### STORAGE

- dry at temperatures between +5 °C and +25 °C in a sealed container
- Can be stored in sealed container/bag for at least 15 months from manufacturing date.

### QUANTITY REQUIRED / YIELD

- Consumption: approx. 1 ml per cm<sup>3</sup> joint volume

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### TECHNICAL DATA

<b>Processing time</b>	approx. 60-90 minutes
<b>permissible total deformation</b>	25 %
<b>Shore hardness (Shore-A)</b>	approx. 35
<b>Strain-tension value for 100%</b>	approx. 0.6 N/mm <sup>2</sup>
<b>Tensile strength</b>	approx. 8 N/mm <sup>2</sup>
<b>Temperature resistance, permanent</b>	-40°C to +180°C
<b>Joint width</b>	10-35 mm
<b>Processing temperature</b>	+5°C to +30°C
<b>Curing time</b>	approx. 2-3 mm / 24 hours
<b>Colour</b>	grey

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

### GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.