

# Mycoflex 450 SP

Polyurethane-based joint sealing compound



## PRODUCT PROPERTIES

- Two-component polyurethane
- Good chemical resistance (see table of resistances), especially against oils and fuels
- Total elastic deformation: 20 %
- stable, can be applied by spraying and spreading

## AREAS OF APPLICATION

- Elastic sealing of joints in bridge constructions, civil engineering and hydraulic engineering
- Connecting- and movement-joints in sewage plants, sewers, oil sumps, etc.
- Floor joints in industrial buildings, workshops and multi-storey parking; elastic filling of pipe sockets

## APPLICATION ADVICE

**Constructional Prerequisites:** Joint-design and dimension in compliance with DIN 18540. For floor-joints please also refer to the IVD-data sheet No. 1 "Sealing of floor-joints with elastic joint-sealing compounds". Before the primer can be applied, the joint-sides have to be dry (residual moisture < 4 %), load-bearing, free from all contaminants (e.g. oils, greases, production residues, etc.), as well as free from dust and cement laitance. The permitted total deformation and the prospective mechanical loading must be considered by the design of the joint width.

**Primer and Backfilling:** The priming of joint-sides in exposed areas is done with Mycoflex 251. Mycoflex 4100 TS is used if requirements according to SS-S 200 E must be observed. The primer must penetrate the joint-sides completely over the entire area. The closed-cell polyethylene round-profile Mycoflex-Jointfiller PE is inserted as backfiller. The joint depth must be limited to approx. 50 % of the width, however, it must be at least 10 mm (see DIN 18540). If a backfiller cannot be inserted, a three-side-adhesion must be prevented, e.g. by inserting a polyethylene-strip. The interval between priming and application of Mycoflex 450 SP is at least 1 hour and not more than 6 hours at 20 °C.

**Mixing:** The base- and the hardener-component must be mixed together thoroughly and homogeneously. Only mechanical mixing with an electric hand-drill (200 - 400 rpm) and an attached special mixer is permitted. For example you can use a Colomix WK. To prevent mixing mistakes we recommend to mix 3 minutes. After re-potting mix another minute.

**Application:** Mycoflex 450 SP can be applied with spatulas, joint trowels, hand- or pneumatic-guns. If applied by pneumatic gun, a working pressure of 4 - 6 bar is required. The sealing compound must be applied void- and bubble-free. The pot life (at 23 °C and 50 % rel. humidity) is approx. 70 - 80 minutes. Material which is already curing must not be used anymore. Smoothing may only be done with non-film-forming smoothing agents.

**Safety Advice:** When applying the primer Mycoflex 251, as well as Mycoflex 450 SP, please take note of safety information and advice given on the packaging labels.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Setting time	hours	24	accessible
	days	3	mechanically resilient
		7	fully chemically resistant
Density	g/cm <sup>3</sup>	approx. 1.4	
Total deformation (maximum)	%	20	
Consistency			paste-like, stable at 23°C and 50% rel. humidity
Mixing ratio	mass fractions	100 : 8.5	base component : hardener component
Shore A hardness		approx. 25	
Application conditions	°C	≥ 5 ≤ 40	air, substrate and material temperatures
	%	≤ 85	rel. humidity
Working time	minutes	70 - 80	at 23° C and 50 % rel. humidity
Tensile stress	N/mm <sup>2</sup>	0.44	at 20° C

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

Colour	black
Priming coat	Mycoflex 251 (box 3 * 1 l cans) One-component reaction plastic based on polyurethane for porous, absorbent as well as smooth, non-absorbent surfaces. Do not use on asphalt.
Delivery form	Box à 4 x 2.5 l packs
Storage	Can be stored in original sealed packages at temperatures between 0°C and 20°C in dry conditions for at least 12 months.
Packaging disposal	Make sure single-use containers are completely empty.

### Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : PU40

**Note:** The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300018269]