

# Mycoflex 4000 VE

Chemical-resistant, polysulphide-based, self-levelling joint-sealer



## PRODUCT PROPERTIES

- Two-component polysulphide-rubber
- Highly resistant to chemicals (see table of resistances)
- Total elastic deformation: 15 %
- Pourable, self-levelling in horizontal joints with a gradient of up to 2 %

## AREAS OF APPLICATION

- Elastic grouting of horizontal movement-joints with increased chemical impact due to liquid chemicals
- Sealing of concrete paving stones around petrol stations in accordance with KIWA-standard

## 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" and data-sheet No. 6 "Sealing of floor-joints with elastic sealers in driven-on areas around petrol pumps at gas stations". 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 constructive laying of the joint width.

**Primer and Backfilling:** The priming of joint-sides in exposed areas is done with Mycoflex 4100 TS. The primer must penetrate the joint-sides completely and 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 should 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 4000 VE should be at least 1 hour and no more than 10 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 4000 VE is injected with air guns with rebound-nozzles at 3 - 4 bar or from pressure pots. It must be inserted void- and bubble-free. A subsequent smoothing on horizontal and slightly sloped (< 2 %) areas is not necessary. The pot life (at 23 °C and 50 % rel. humidity) is approx. 60 minutes. High humidity and high temperatures shorten, low temperatures prolong the pot life. Material which is already curing must not be used anymore.

**Safety Advice:** When applying the primer Mycoflex 4100 TS, as well as Mycoflex 4000 VE, please take note of safety information and advice given on the packaging labels.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Chemical resistance			see resistance list
Density	g/cm <sup>3</sup>	1.64 1.71	black grey
Total deformation (maximum)	%	15	
Consistency			pourable, self-levelling at 23°C and 50% rel. humidity
Mixing ratio	mass fractions	10 : 1	base component : hardener component
Modulus of resilience	%	> 90	
Shore A hardness		approx. 18 - 20	at 20° C and 50 % rel. humidity
Application conditions	°C	≥ 5 ≤ 40	Temperatura del aire, soporte y material
	%	≤ 85	rel. humidity
Working time	minutes	60	at 23° C and 50 % rel. humidity
Tensile stress (100% strain) elongation)	N/mm <sup>2</sup>	0.22 0.4	at 23°C at -20°C
Condition after curing		Flexible	

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

Colour	black, grey
Priming coat	Mycoflex 4100 TS (box 6 * 1 kg container pair) Two-component reaction plastic based on epoxy resin for all absorbent and non-absorbent substrates. Do not use on asphalt.
Delivery form	Box à 4 x 2.5 l cans, 8.8 l packs
Storage	Can be stored in cool (below 20°C) and dry conditions for 12 months in original unopened packs. Protect from frost.
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.

**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. [2400020576]