

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: 25 %
- Sprayable, 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

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 polyethene 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 polyethene-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 hardener-component must be mixed together thoroughly and homogeneously. Mixing usually takes 3 - 4 minutes. Only mechanical mixing with an electric hand-drill (200 - 400 rpm) and an attached special mixer is permitted. To prevent mixing mistakes we recommend re-potting.

Application

Mycoflex 4000 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. 90 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 Data for Mycoflex 4000 VE

Characteristic	Unit	Wert	Comments
Mixing ratio	p. b. w.	10 : 1	base : hardener
Density	g/cm ³	1.64 1.71	black grey
Consistency		paste-like, sprayable, self- levelling	at 23 °C and 50 % relative humidity
Application time	minutes	90	at 23 °C and 50 % relative humidity
Curing time	hours	24 - 48	depending on storage time and temperature
Consistency after curing		elastic	
Shore-A-hardness		approx. 18 - 20	
Maximum total deformation	%	25	
Tension (100 % expansion)	N/mm ²	0.22 0.40	at + 23 °C at - 20 °C
Readjusting capability	%	> 90	
Chemical resistance			see table of resistances
Application conditions	°C %	≥ 5; ≤ 40 ≤ 85	air, material and substrate temperature relative humidity

Product Characteristics for Mycoflex 4000 VE

Colour	black, grey
Delivery	Box à 4 x 2.5 l cans, 8.8 l packs
Primer	Mycoflex 4100 TS (Box à 6 x 1 kg cans) Two-component, epoxy resin-based reactive polymer for all absorbent, as well as non-absorbent substrates. Not suitable for use on asphalt.
Storage	Can be stored in cool (below 20 °C) and dry conditions for at least one year in original unopened packs. Protect from frost!
Disposal	Packs must be emptied completely.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 12/14. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.