Mycoflex 4000

Two-component polysulphide-sealer according to DIN 18540-F

Product Properties

- Two-component, elastic heavy-duty sealer made of polysulfide-rubber
- Low tension value
- Total elastic deformation: 25 %
- Stable, can be applied by spraying and spreading
- Chemical-resistance (see table of resistances)

Areas of Application

- Movement-compensating sealing of joints in bridge construction, civil engineering and hydraulic engineering
- Connecting- and movement-joints on pre-cast elements, facade facings
- Connecting joints to framing material and structural parts

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”.

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 251. The primer Mycoflex 4151 is applied on substrates made from Zentrifix 92 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 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 polyethene-strip.

The interval between priming and application of Mycoflex 4000 should be at least 1 hour and no more than 6 hours at 20 °C.

Mixing
The base- and hardener-component must be mixed together thoroughly until it is homogenous and streak-free. Only mechanical mixing with an electric hand-drill (200 - 400 rpm) and attached special mixer is permitted.

Application
Mycoflex 4000 is injected with air guns at 3 - 4 bar or from cartridges. It must be inserted void- and bubble-free. The pot life (at 20 °C and 50 % rel. humidity) is approx. 2 - 3 hours. Material which is already curing must not be used anymore.

Safety Advice
When applying the primer Mycoflex 251, as well as Mycoflex 4000, please take note of safety information and advice given on the packaging labels.

MC-Bauchemie • Am Kruppwald 1-8 • 46238 Bottrop • Tel. +49 (0) 2041-101 10 • Fax: +49 (0) 2041-101 188
info@mc-bauchemie.de • www.mc-bauchemie.de

Technical Data for Mycoflex 4000

Characteristic	Unit	Wert	Comments
Mixing ratio	p. b. w.	10 : 1	base : hardener
Density	g/cm³	1.53	-
Consistency		paste-like, applicable by sprayable and spreading	at 23 °C and 50 % relative humidity
Stability (DIN 52454)		stable, no flowing	at 23 °C and 50 % relative humidity
Application time	hours	2 - 3	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		15	
Maximum total deformation	%	25	
Tension (100 % expansion)	N/mm²	0.25	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

Colour	grey
Delivery	Box à 25 x 450 ml cartridges, Box à 4 x 2.5 l cans
Primer	Mycoflex 251 (Box à 3 x 1 l) One-component, polyurethane-based reactive polymer for porous, absorbent, as well as smooth, non-absorbent substrates. Not suitable for use on asphalt.
Storage	Can be stored in cool (below 20 °C) and dry conditions for approx. 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.

Edition 04/09. 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.

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