

Mycoflex 488 MS

Single-component MS polymer sealant per DIN 18540



PRODUCT PROPERTIES

- Single-component
- Isocyanates-free, silicone- and tin-free
- Elastic
- Solvent-free, nearly odourless
- Very low emission according to GEV-EMICODE, categorie EC1^{PLUS}
- Easy to spray and smooth
- Very high resistance to weathering and ageing
- In accordance with DIN 18450 (early resistance)
- Wide adhesion spectrum without primer (e.g. coated wood, various metals and plastics)

AREAS OF APPLICATION

- Joint sealing in accordance with DIN 18540
- Movement- and connecting joints in structural engineering, precast industry, window manufacture, timber and metal structures, on balconies and in carparks with DIN EN 15651-1: 2012
- Sealing of edge joints in floor surfaces and low mechanically loaded joints with DIN EN 15651-4: 2012

APPLICATION ADVICE

Substrate Preparation: The joint edges must be dry, clean, load-bearing and free of adhesion-reducing substances. Loose particles, oil or grease etc. must be removed. On many plastic or painted surfaces Mycoflex 488 MS has good bonding properties without primer. As there are many possible substrates and areas of application, it is advisable to perform an adhesive test if the condition of the substrate is not clearly identifiable. Optimal adhesion is achieved by using the primer Mycoflex 251, which should always be used on porous, absorbent substrates, especially if frequently exposed to moisture. The primer is evenly and area-wide applied with a soft and clean brush and then exhausted (see technical data table). Mycoflex 488 MS is not suitable for use on structures made from marble and natural stone. To define and control the depth of joints, it is necessary to backfill deeper joints with Mycoflex Joint Filler. If it is not possible to insert backfill, the adhesion of the sealant to the joint bottom must be prevented by inserting, e.g. polyethylene-strip.

Application: The processing is done with manual spray guns or pressurized air guns. When working with pressurized air, a pressure of 3 - 4 bar is required. The sealing compound must be inserted without bubbles or voids and the joint side must be well wetted. A strong adhesion to the joint sides should be created by pressing and smoothing. For smoothing use a moistened trowel or knife and neutralized water (neutral soap). It is advisable to mask the joint edges with self-adhesive tape, to guarantee a clean joint. The tape should be removed immediately after the sealant has been smoothed, or rather before the skin starts to form.

Further Information: For processing and handling Mycoflex 488 MS and Mycoflex 251 please note the information in the safety data sheet. Mycoflex 488 MS is subjected to typical ageing processes, which might be accelerated by chemical and mechanical attacks, as well as exposure to the weather. The joints must be inspected regularly with the regard to function and appearance and renewed if necessary. The information in DIN 18450 must be observed, depending on the respective area of application. Generally valid statements on terms, handling and processing are given in, for example, the current IVD data sheets No. 1 to 3, No. 7, No. 9 and No. 12, as well as in the IVD Sealant Lexicon.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Setting time	mm/day	> 2	at 23° C and 50 % rel. humidity
		< 3	
Flash-off time	hours	> 1	of the primer Mycoflex 251
		< 6	If flash-off time is exceeded, re-prime.
Expansion	%	< 3	
Elongation at fracture	%	> 500	DIN 53504 S2
Stress-strain	N/mm ²	< 0.5	EN 28340, 100%, 20°C
Density	g/cm ³	approx. 1.53	
Total deformation	%	25	related to the initial joint width
Skin formation	minutes	approx. 30	at 23°C and 50% rel. humidity, high temperatures, direct sunlight and high relative humidity significantly shorten skin formation
Modulus of resilience	%	> 70	EN 27389
Shore A hardness		approx. 24	
Stability	mm	< 2	EN 27390-20
Thermal resistance	°C	> -40	cured material
		< 90	cured material
Application conditions	°C	≥ 5 ≤ 40	air and substrate temperatures
Volume change	%	< 3	DIN EN ISO 10563
Condition after curing	Flexible		Only once the material has fully set may it be exposed to chemical attack and/or mechanical loading.

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

Self-monitoring	EN ISO 9001
Form	pasty
Equipment cleaning agent	MC-Reinigungsmittel U
Colour	Concrete grey, medium grey, light grey, white, black, other colours on request
Delivery form	600 ml tubular pouches (box with 12 x 600 ml pouches)
Storage	Can be stored in original sealed packages at temperatures between 0°C and 20°C in dry conditions for at least 18 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 : RS10

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. [2400020620]