

Mycoflex 488 MS

Single-component MS polymer sealant.

PRODUCT PROPERTIES:

- Single-component.
- Isocyanates-free, silicone- and tin-free.
- Elastic.
- Solvent-free, nearly odourless.
- Very low emission according to GEV-EMICODE, category EC1PLUS.
- Easy to spray and smooth.
- Very high resistance to weathering and aging.
- In accordance with DIN 18450 (early resistance).
- Wide adhesion spectrum without primer (e.g. coated wood, various metals and plastics).

AREAS OF APPLICATION:

- Sealing joints in indoor and outdoor areas.
- Sealing expansion joints in construction structures.
- Sealing unstable joints in structural engineering, precast industry, wood and metal structures, window manufacturing, balconies and in parking lots.

APPLICATION NOTES:

- **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 direct 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.

- **Finising:**
 - 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 DATA:

Characteristic	Unit	Value	Comments
Setting time	mm/day	2 - 3	At 23°C and 50% rel. humidity
Flash-off time	Hours	1 - 6	Of the primer Mycoflex 251. If flash-off time is exceeded, re-prime.
Expansion	%	< 3	
Elongation at fracture	%	> 800	DIN 53504 S2
Value	N/mm ²	< 0.4	EN 28340, 100%, 20°C
Density	g/cm ³	approx. 1.47	
Total deformation	%	25	Related to the initial joint width
Resin consumption	Minutes	approx. 35	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. 18	
Stability	mm	< 2	EN 27390-20
Thermal resistance	°C	-40 to +90	Cured material
Application conditions	°C	+5 to +40	Air and substrate temperatures
Volume change	%	< 3	DIN 52451
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.

PRODUCT CHARACTERISTICS:

Self-Monitoring	EN ISO 9001
Colour shade	Concrete grey, medium grey, light grey, white, black, other colours on request.
Packaging	600 ml tubular pouches (box with 12 x 600 ml pouches)
Form	Pasty
Equipment cleaning agent	MC-Reinigungsmittel U
Shelf-life and storage	Can be stored in original sealed packages at temperatures between 0°C and 20°C in dry conditions for at least 18 months.

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

Edition **01/2024**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.