

PRODUCT DATA SHEET

Sikalastic® M 686

(formerly MSeal M 686)

Two component polyurea waterproofing membrane, highly elastic, rapid curing, for manual applications

PRODUCT DESCRIPTION

Sikalastic® M 686 is a rapid curing two component, hand applied, slightly thixotropic, elastomeric polyurea membrane with high chemical and mechanical resistance.

USES

Sikalastic® M 686 is used in a variety of concrete water-proofing applications including containments, waste water plants, roofing, balconies etc.

CHARACTERISTICS / ADVANTAGES

- Monolithic – no laps, welds or seams
- Fully bonded
- Excellent mechanical properties
- High crack bridging capability
- Resistant to puncture
- Resistant to standing water
- Thermoset – do not soften at high temperature
- Remain elastic at low temperatures
- (Tg approx – 45 °C)
- Can be re-coated after a few hours

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating

PRODUCT INFORMATION

Product Declaration	EN 1504-2: Surface protection product for concrete - Coating	
Chemical Base	Polyurea	
Packaging	Part A	10 kg drums
	Part B	2 kg drums
Shelf Life	Part A: 9 months from date of production Part B: 9 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +15 °C and +25 °C. Do not expose to direct sunlight. Always refer to packaging.	
Colour	Sikalastic® M 686 is available in grey.	
Density	Part A	1.42 g/cm ³
	Part B	1.23 g/cm ³
	Mix	1.37 g/cm ³

Viscosity	Part A	9000 mPas
	Part B	2000 mPas
	Mix	6300 mPas

TECHNICAL INFORMATION

Shore A Hardness	~ 90	
Tensile Strength	~6 N/mm ²	(DIN 53504)
Elongation at Break	~ 200 %	(DIN 53504)

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 100 : 20 (by weight)	
Consumption	~1.37 kg / m ² / mm	
Ambient Air Temperature	+5 °C min. / +35 °C max.	
Relative Air Humidity	< 85 %	
Substrate Temperature	+5 °C min. / +35 °C max.	
Curing Time	at 10°C	7 days
	at 20°C	5 days
	at 30°C	3 days
Tack Free Time	at 10°C	240 min
	at 20°C	150 min
	at 30°C	120 min
Waiting Time / Overcoating	at 10°C	min. 8 h
	at 20°C	min. 5 h
	at 30°C	min. 3 h

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

EQUIPMENT

Reference must be made to the Sika® Method Statement: Sikalastic® M 686

SUBSTRATE QUALITY

Reference must be made to the Sika® Method Statement: Sikalastic® M 686

SUBSTRATE PREPARATION

Reference must be made to the Sika® Method Statement: Sikalastic® M 686

MIXING

Reference must be made to the Sika® Method Statement: Sikalastic® M 686

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions. Prior to application, confirm sub-

strate moisture content, relative air humidity, dew point, substrate, air and product temperatures. Reference must be made to the Sika Method Statement: Sikalastic® M 686

CLEANING OF TOOLS

Clean all tools with Thinner C immediately after use. The application equipment must be cleaned and filled with Mesamoll. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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Product Data Sheet

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