

PRODUCT DATA SHEET

Sikalastic® M 811

(formerly MSeal M 811)

Two component polyurea hybrid, pigmented, elastic, highly reactive, spray applied (machine application) waterproofing membrane with short curing time

DESCRIPTION

Sikalastic® M 811 is a two component polyurea hybrid waterproofing membrane. It is high reactive and needs to be applied by special, two component spray equipment.

USES

Sikalastic® M 811 is used in a wide range of waterproofing applications such as car park decks, podium decks, cut and cover tunnelling and basement waterproofing. It is also used in some secondary containment applications.

Using the appropriate primer, Sikalastic® M 811 can be applied to most substrates including concrete, steel, bitumen cement screed, glass reinforced polyester, timber etc.

FEATURES

- Fast reacting
- High build capability
- Application to vertical surface without runs
- Easy application to complicated details

- Fast installation
- Monolithic – no laps, welds or seams
- Fully bonded
- High water vapour permeability – low risk of blistering
- Excellent mechanical properties
- Excellent crack bridging
- Resistant to puncture
- Resistant to standing water
- Thermoset – does not soften at elevated temperatures
- Remains elastic at low temperatures; Tg approx -45°C
- Solvent free

Sikalastic® M 811 features high elasticity, excellent tensile strength, elongation and a good wear resistance. This highly reactive waterproofing membrane allows its installation on vertical surfaces without problems. Moreover this fast-curing membrane can be re-coated within a few hours.

CERTIFICATES AND TEST REPORTS

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

PRODUCT INFORMATION

Composition	Polyurea hybrid	
Packaging	210 kg drums 220 kg drums	
	Part A	~200 litres
	Part B	~200 litres
Appearance and colour	Part A	liquid / grey
	Part B	liquid / clear
	UV light exposure may lead to yellowing	

Shelf life	Part A: 12 months from date of production Part B: 12 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.	
Density	Part A	<u>1.06 g/cm³</u>
	Part B	<u>1.08 g/cm³</u>
	Values at +23°C	
Product declaration	EN 1504-2: Surface protection product for concrete - Coating	
Viscosity	Part A	<u>1725 mPas</u>
	Part B	<u>1800 mPas</u>
	Values at +23°C	

TECHNICAL INFORMATION

Shore A hardness	88	
Abrasion resistance	≤ 3000 mg	(EN 1504-2)
Resistance to impact	Class I	(EN 1504-2)
Tensile strength	14 N/mm ²	(ASTM D 412)
Elongation	485 %	(ASTM D 412)
Tensile adhesion strength	≥ 1.5 N/mm ²	(EN 1504-2)
Tear strength	50 N/mm ²	(ASTM D 624:2000e)
Crack bridging ability	B 4.2 (-20° C)	(EN 1504-2)
Reaction to fire	Cfl-s1	(EN 1504-2)
Chemical resistance	Reduction of hardness < 50%	(EN 1504-2)
Permeability to water vapour	19 g/(m ² .d) (1.5mm, 25 °C/75 % r.h.)	Class II (BS 3177/EN 1504-2)
Capillary absorption	< 0.1 kg/(m ² xh ^{0.5})	(EN 1504-2)
Permeability to carbon dioxide	S _d > 50	(EN 1504-2)
Skid / slip resistance	Class II	(EN 1504-2)

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 100 : 100 (by volume)
Ambient air temperature	+5 °C min. / +35 °C max.
Relative air humidity	<85%
Substrate temperature	+5 °C min. / +35 °C max.
Curing time	Final cure ~24 hours at +23 °C Time is approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.
Gel time	~10 seconds at +20°C

BASIS OF PRODUCT DATA

based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

All technical data stated in this Product Data Sheet are

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

Reference must be made to the Sika® Method Statement: Sikalastic® M 811

SUBSTRATE QUALITY

Reference must be made to the Sika® Method Statement: Sikalastic® M 811

SUBSTRATE PREPARATION

Reference must be made to the Sika® Method Statement: Sikalastic® M 811

MIXING

Reference must be made to the Sika® Method Statement: Sikalastic® M 811 Note: Both components must be heated up to +70°C. The accuracy of mixing and dosage must be controlled regularly with the spray equipment. Thoroughly stir Part A (Amine) using a drum stirrer until a uniform consistent colour is obtained.

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 substrate moisture content, relative air humidity, dew point, substrate, air and product temperatures. Reference must be made to the Sika Method Statement: Sikalastic® M 811

CLEANING OF EQUIPMENT

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

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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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