BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic® M 800

(formerly MSeal M 800)

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

DESCRIPTION

Sikalastic® M 800 is a solvent free, two component, pigmented, low modulus, hybrid polyurethane polyurea waterproofing membrane. It is highly reactive and can only be applied by special two component spray equipment. This product has been available under different commercial names since 1985, it continues and now under Sika Brand name. It holds a number of approval certificates for various waterproofing applications worldwide.

USES

Sikalastic® M 800 may only be used by experienced professionals.

- For use as a waterproofing membrane on flat and pitched roof structures with additional top coat for UV-protection for exposed roofs.
- For use as a waterproofing membrane underneath planting or hard landscaping on podium areas.
- For use as a waterproofing membrane underneath insulation boards, polyurethane foam as part of an inverted or vegetative roof system
- For use as a waterproofing membrane for other concrete structures and on non-trafficked concrete areas with an additional top coat for UV-protection.
- Using the appropriate primer, Sikalastic® M 800 can be applied to most substrates including concrete, bitumen cement screed, glass reinforced polyester, timber etc
- Used as a part of bridge deck/car deck waterproofing system

CHARACTERISTICS / ADVANTAGES

- Long Track Record (since 1985)
- Solvent free
- Fast reacting spray application – Easy to waterproof complex details in both horizontal and vertical applications.
- No sagging on vertical applications
- Monolithic – No laps, welds or seams
- Fully bonded-No lateral water migration
- High water vapor permeability – Low risk of blistering in service life
- Crack bridging capability- Can cope with cracks that occur after installation
- Solvent and monomeric isocyanate free – Increased safety for applicators
- Unaffected by standing water or ground water – Suitable for constant water contact
- Thermoset – Does not soften at elevated temperatures encountered on a roof
- Remains elastic at low temperatures-Tg approx -35°C
- Suitable for all Asia Pacific.

ENVIRONMENTAL INFORMATION

Conformity with LEED credites (latest version LEED V4, revised 2012): Low-Emitting Materials - Paints and Coatings

APPROVALS / STANDARDS

- Singapore Green Label
- Meet Japan JIS A 6021 Type I
- ASTM C 1305-2016 Crack bridge 10 cycles at 3.2mm at -26°C
- Root Resistant when tested as per DIN 4062
- BBA Roof Certification done in Y2002
- BBA approval a part of car deck waterproofing system done in Roof Certification done at Y2016

- ETAG-22/0358 approval as a part of bridgedeck waterproofing system done in Y2022

PRODUCT INFORMATION

Chemical base	Hybrid Polyurethane/Polyurea	
Packaging	Part A	200 kg drum
	Part B	220 kg drum (Red)
Colour	Part A: Grey Liquid Part B: Light Yellow Clear Liquid	
Shelf life	12 months from date of production for both components	
Storage conditions	The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions. Part A & Part B stroe at temperatures between +10 °Cand +30 °C. Higher storage temperatures may reduce shelf life of product.	
Density	Part A	1.05 ± 0.03 kg/L
	Part B	1.10 ±0.05 kg/L
	Values at +25°C	
Viscosity	Part A	1650 mPas
	Part B	1000 mPas
	Values at +25°C	

TECHNICAL INFORMATION

Shore A hardness	75 ± 5	(ASTM D 2240)
Resistance to root penetration	Pass	(DIN 4062)
Tensile strength	≥ 8 N/mm²	(ASTM D 412)
Elongation at break	≥ 400 %	(ASTM D 412)
Tear strength	> 30 N/mm²	(ASTMD624)
Crack bridging ability	Dynamic Crack Bridging -Passes	(EN 1062-7,B 4.2))
Water penetration under pressure	No leakage at 5 bar	(DIN 16726)

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 100 : 70 (by volume) Part A : Part B = 100 : 73 (by weight)
Ambient air temperature	+5 °C min. / +40 °C max.
Relative air humidity	< 85%
Substrate temperature	+5 °C min. / +35 °C max.
Substrate moisture content	≤ 4 % pbw moisture content. Test method: Sika®-Tramex meter, No rising moisture according to ASTM (Polyethylene-sheet method).
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	15 ± 3s at +20°C

SYSTEM INFORMATION

System structure

Dry film thickness

Type of Exposure	DFT
Non Exposed	1.6 - 2.2 mm
Exposed	1.8 - 2.2mm

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

- Should not be exposed to exposed applications.UV light exposure may lead to yellowing
- If used for exposed applications to be protected with an aliphatic top coat

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

Reference must be made to the Sika® Method Statement: Sikalastic® M 800

SUBSTRATE QUALITY

Reference must be made to the Sika® Method Statement: Sikalastic® M 800

SUBSTRATE PREPARATION

Reference must be made to the Sika® Method Statement: Sikalastic® M 800

SUBSTRATE QUALITY / PRE-TREATMENT

Use a suitable Sikafloor® or Sikalastic® primer depending on the substrate and turnaround time required for the application of the first coat of Sikalastic® M 800 .Refer to respective product data sheet of primer to be used for guidance on application,coverage,etc

MIXING

Reference must be made to the Sika® Method Statement: Sikalastic® M 800
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

Follow the application procedures outlined in the Sika® Method Statement: Sikalastic® M 800, as well as relevant manuals and site-specific working instructions. Always adjust procedures to suit actual site conditions.
Before application, confirm that substrate moisture content, ambient and substrate temperatures, relative humidity, dew point, and product temperature are all within the specified limits. These checks are essential to ensure proper adhesion and performance.

CLEANING OF TOOLS

Clean all tools with Thinner C immediately after use. The application equipment must 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 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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