

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 two component, waterproofing membrane. It is highly reactive and can only be applied by special, two component spray equipment. Sikalastic® M 800 has been in use since 1985 and forms the basis of a number of approval certificates for various waterproofing applications world-wide.

USES

Sikalastic® M 800 is used in a wide range of waterproofing applications such as bridge deck waterproofing, 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 800 can be applied to most substrates including concrete, steel, bitumen cement screed, glass reinforced polyester, timber etc.

CHARACTERISTICS / ADVANTAGES

- Long track record (since 1985)
- 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 capability
- Resistant to puncture
- Resistant to standing water
- Thermoset – does not soften at elevated temperatures
- Withstands the high temperatures during laying of hot poured asphalt (approx. 240 °C)
- Remains elastic at low temperatures; Tg approx -45 °C
- Solvent free

Sikalastic® M 800 features high elasticity, excellent tensile strength and elongation and a good wear resistance. This highly reactive waterproofing membrane allows its installation on vertical surfaces without problem. Moreover this fast-curing membrane can be re-coated within 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 | Polyurethane | | |
| Packaging | Part A | 210 kg drums | ~200 litres |
| | Part B | 220 kg drums | ~200 litres |

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|----------------------------|--|------------------------|
| Shelf Life | Part A: 18 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. | |
| Appearance / Colour | Part A | liquid / grey |
| | Part B | liquid / clear |
| | UV light exposure may lead to yellowing | |
| Density | Part A | 1.06 g/cm ³ |
| | Part B | 1.08 g/cm ³ |
| | Values at +23°C | |
| Viscosity | Part A | 2400 mPas |
| | Part B | 1800 mPas |
| | Values at +23°C | |

TECHNICAL INFORMATION

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|----------------------------|------------------------|-------------|
| Shore A Hardness | ~ 80 | (DIN 53505) |
| Tensile Strength | ~ 10 N/mm ² | (DIN 53504) |
| Elongation at Break | ~ 400 % | (DIN 53504) |
| Tear Strength | 18 N/mm ² | (DIN 53515) |

APPLICATION INFORMATION

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|--------------------------------|--|
| Mixing Ratio | Part A : Part B = 100 : 70 (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

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.

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 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

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

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 800

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

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

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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