BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic® M 808

(formerly MasterSeal® M 808)

Elastic polyurethane membrane for waterproofing and protection of concrete structures. Suitable for direct contact with potable water and foodstuff

PRODUCT DESCRIPTION

Sikalastic® M 808 is a two component elastic polyurethane membrane, with 100% solids formulation, high chemical and abrasion resistance. Approved for direct contact with potable water and foodstuff.

USES

Sikalastic® M 808 is used in waterproofing applications where contact with potable water or a high level of chemical resistance is required.
This includes:
- Water towers, storage tanks or any other water retaining structures.
- Interior coating to drinking water tanks.
- Storage tanks containing foodstuffs etc.
- Waste water treatment plants (urban and industrial), both in the inflow and outflow areas.
- Sewage effluent pipelines.
- Steel and concrete pipes.

Sikalastic® M 808 can be applied on:
- Horizontal and vertical substrates.
- Internal and external areas.
- Concrete, cementitious mortar or steel substrates.
- Reinforced concrete to protect it against carbonation or chloride induced corrosion and for protection against chemical attack in secondary containment bunds in chemical and petrochemical industries.

CHARACTERISTICS / ADVANTAGES

- Can be applied on vertical and horizontal surfaces.
- Easy to apply by roller or air-less spray equipment.
- Waterproof.
- Resistant to standing water.
- Elastic, flexible and crack-bridging.
- High chemical resistance.
- Protects concrete against carbonation and rebar corrosion: Once hardened it is impermeable to water and carbon dioxide.
- Excellent mechanical and elastic properties (elongation, tensile and tear strength, abrasion).
- Excellent adhesion on different substrates (concrete, steel).
- Excellent freeze/thaw resistance.
- UV resistant
- Thermoset – does not soften at elevated temperatures.
- 100% solids formulation, no risk for the environment and operative caused by solvent vapours.

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating
- Approved by the Secretary of State for Environment under Regulation 31(4) (a) for use in contact with potable water. Specific instructions for use available on request. (UK)
- WRAS approved for use in contact with potable water - approval no 1210500 (UK)
- Approved for contact drinking water according RD 140/2003 (Spanish transposition of European directive 98/83/EC)
- Approved for contact with potable water according to EU No. 10/2011 and EU 2020/1245.
- Approved for contact with potable water according to Italian Ministerial Decree DM 174 of April 2004.
- Tested according EN 12872. Influence of materials on water intended for human consumption - Influence due to migration.
- Tested according EN ISO 4628/2004 (500 h) - accelerated corrosion test in saline mist chamber.

PRODUCT INFORMATION

Packaging	Part A	8.88 kg drums
	Part B	4.62 kg drums
	Refer to current price list for packaging variations.	
Shelf Life	Part A & 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 +10 °C and +25 °C. Do not expose to direct sunlight. Always refer to packaging.	
Colour	Grey and light grey	
Density	Mix	~1.2 kg/l
	Values at +20 °C	

Viscosity	Temperature	Part A	Part B
	+ 23°C	2680 mPas	450 mPas

TECHNICAL INFORMATION

Shore D Hardness	70			(EN ISO 868/07)
Abrasion Resistance	Mass loss < 350 mg (required < 3000)			(EN ISO 5470-1)
Resistance to Impact	20 Nm			(EN ISO 6272/2)
Tensile Strength	> 20 N/mm²			(EN ISO 527-1/-2)
Elongation at Break	60%			(DIN 53504)
Crack Bridging Ability	A4	+23°C	Static	(EN 1062-7)
	A3	-10°C		
	A2	-20°C		
	B2	+23°C	Dynamic	(EN 1062-7)
	B2	-20°C		
Adhesion in peel	3.8 N/mm²			(EN 1542)
Capillary Absorption	0.001 kg/m²·h$^{0.5}$ (required < 0.1)			(EN 1062-3)
Permeability to Water Vapour	6.2 m (class II 5 < SD < 50)			(EN ISO 7783)
Permeability to CO2	74 m (required > 50)			(EN 1062-6)
Behaviour after Artificial Weathering	no changes			(EN 1062-11)

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 100 : 52 (by weight)
Consumption	0.4 – 0.8 kg/m² in two coats
Product Temperature	+10 °C min. / +35 °C
Ambient Air Temperature	+10 °C min. / +35 °C
Relative Air Humidity	≤ 70 %
Substrate Moisture Content	≤ 4 %
Pot Life	~ 20 - 25 minutes (at +20°C)

Curing Time	Final cure after 7 days at +20 °C Time is approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.
Tack Free Time	~ 6 hours (at +20°C)
Waiting Time / Overcoating	~ 6 hours (at +20°C)

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.

Regulation (EC) No 1907/2006 (REACH) - Mandatory training

As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit https://irl.sika.com/en/knowledge-hub-sika-ireland/pu-training.html.

APPLICATION INSTRUCTIONS

EQUIPMENT

Reference must be made to the Sika® Method Statement: Sikalastic® M 808

SUBSTRATE QUALITY

Reference must be made to the Sika® Method Statement: Sikalastic® M 808

SUBSTRATE PREPARATION

Reference must be made to the Sika® Method Statement: Sikalastic® M 808

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 808

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 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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