

PRODUCT DATA SHEET

Sikalastic® M 635

(formerly MSeal M 635)

One Component, Elastic Cold-applied Liquid Polyurethane Waterproofing Membrane

DESCRIPTION

Sikalastic® M 635 is a one component, high solids, pure polyurethane waterproofing which cures with the humidity in the atmosphere. It produces a highly elastic, hydrophobic membrane and has been designed to offer excellent long term waterproofing performance.

USES

Waterproofing of:

- Roofs, podiums, balconies and terraces covered with screed or tiles.
- As a protection waterproofing over PU foam
- Wet rooms
- Damp proofing for foundations, retaining wall.

Note: Always protect the membrane with a geotextile and protective screed (Concealed System) or UV Resistant Aliphatic Top Coat

Contact our Technical Services team regarding any application required but not mentioned here

CHARACTERISTICS / ADVANTAGES

- Waterproof - Protects structure from water penetration
- Elastomeric - Permits nominal expansion and contraction of the structure.
- Single Component – No complex mixing and easy to use.
- Cold Applied and Seamless – Eliminates lapping, seaming and precutting.
- Low Temperature Flexibility – Wide service temperature, film remains elastic upto - 35°C.
- Breathable-The film breathes so there is no accumulation of humidity under the coat

PRODUCT INFORMATION

Chemical base	Polyurethane	
Packaging	Sikalastic® M 635 is supplied as 25 kg unit	
Appearance / Colour	Homogeneous & Viscous ,Red in color	
Shelf life	12 months from date of production	
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight,heat and moisture.	
Density	1.43+- 0.03 g/cc	
Product declaration	Complies to ASTM C836	
Solid content	$\geq 89\%$	(ASTM C836)

TECHNICAL INFORMATION

Shore A hardness	60-65	(ASTM D2240)
Tensile strength	\geq 4 N/mm ²	(ASTM D412)
Elongation	\geq 500 %	(ASTM D412)
Tear strength	\geq 20 N/mm	(ASTM D624)
Resistance to water penetration	No leakage (Under 0.3 MPa water pressure for 120 minutes)	
Flexibility at low temperature	Excellent, remains elastic even up to -35°C	

APPLICATION INFORMATION

Consumption	Total consumption approx 1.6 kg/m ² for approx 1mm thickness when applied by brush on relatively smooth surface. Consumption may vary at site due to site imperfections, etc. Recommended thickness shall be based on project specifications. Contact Sika Technical representative for guidance.
Ambient air temperature	+10°C min. / +40°C max.
Dew point	Beware of condensation. The substrate temperature must be at least +3 °C above dew point at the time of installation of membrane to prevent formation of bubbles/blisters
Substrate temperature	+10°C min. / +40°C max.
Substrate moisture content	\leq 4-5 %
Tack free time	4 hrs minimum (Surface Drying Time) @ 23°C/53% RH
Waiting time / Overcoating	12 hrs min. / 48 hrs max (at 23°C / 53%RH)
Applied product ready for use	7 days (Full cure)

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.

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.

USES

Not recommended for:

- Exposed Applications subjected to intense UV rays (Should be concealed)
- Not recommended for applications where very high temperatures are involved.

FURTHER DOCUMENTS

Can be successfully applied on:
Concrete, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic coatings. For information about other substrates, please contact our Technical Services Department.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All substrates (new and old) must be structurally sound, dry, and free of laitance and loose particles. Clean of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants. Profile mechanically the surface by shot blasting, high pressure water jetting or other suitable mechanical preparation method. After surface preparation the tensile strength of the substrate should exceed 1.5 N/mm² (check with an approved pull-off tester). Temperature of the substrate should be minimum +10°C and maximum +40°C. The residual moisture content of the substrate must not exceed 4% (check with e.g. Tramex device). The temperature of the substrate must be at least 3°C above the current dew point temperature. Do not apply the Sikalastic® M 635 in temperature below +10°C, or when dew, rain or frost is imminent

User must read the most recent corresponding Safety

within the next 48 hours.

SUBSTRATE QUALITY / PRE-TREATMENT

Pre-striping

Before applying the final membrane, all joints, cracks and openings around protrusions must be prestripped (a preliminary coating of Sikalastic® M 635 should be applied with a trowel or stiff-bristled brush) over a geotextile fabric 40-60 gsm as pretreatment. Allow to dry over night before applying final membrane.

Working or Expansion Joints

All joints over 3 mm must be sealed with our Polyurethane sealant. Any working joint less than 3 mm should be opened up to a minimum of 6 mm and filled with a sealant. Prevent the waterproofing membrane from adhering to the joint sealant by applying a bond breaker tape over the cured sealant and then pre-striping.

Uncoated Metal Surfaces

Remove dust, debris, and any other contaminants from vent, drain, pipe and post penetrations, reglets and other metal surfaces. Clean surfaces to near white to SA 2.5 and prime immediately with a suitable metal primer from our Sikalastic®/ Sikafloor® primers

Primer

Sikalastic® M 635 is self-priming and can be directly applied to substrate. In case of porous substrates, Sikalastic® M 635 can be applied by diluting with 5-10% pure xylene. Based on site conditions recommend to use a suitable primer from our Sikalastic®/ Sikafloor® primers. Consult our Technical Services Team for advise on such situations for correct primer selection.

APPLICATION

Apply with brush, roller or trowel in two coats as per recommended DFT. Do not exceed 48 hours between the coats

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 recommenda-

tions. 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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