

PRODUCT DATA SHEET

Sikalastic® M 640

(formerly MSeal M 640)

Cost effective, one-component, liquid applied, polyurethane based, waterproofing membrane

DESCRIPTION

Sikalastic® M 640 is a ready-to-use, one-component, cold applied, low viscosity polyurethane base, elastomeric membrane for roof waterproofing. Sikalastic® M 640 cures to form a seamless and durable waterproofing membrane, suitable for exposed roof areas and structures, as well as below tiles on balconies and terraces.

USES

Sikalastic® M 640 may only be used by experienced professionals.

Designed for the following waterproofing applications:

- Roof waterproofing for new constructions and refurbishment projects
- Waterproofing of roofs, balconies and terraces
- Waterproofing structures with numerous details such as penetrations, drains, roof lights and complex geometry
- Waterproofing existing substrates (e.g. concrete, bituminous membrane, asbestos cement, metal, wood, unglazed ceramic tiles)
- For exterior use only

FEATURES

- One-component, easy and ready to use
- Cold applied - requires no heat or flame
- Seamless membrane
- Excellent crack bridging ability, even at low temperatures
- High elasticity and flexibility
- Thermal resistance, the product retains its properties even at high temperatures
- Resistance to cold temperatures: The Product retains its elasticity even at -20 °C
- Easily recoated if needed - no need to remove the existing one
- Vapour permeable, allows substrate to breathe
- Easy to apply, low viscosity
- Economic – provides a cost efficient life cycle extension of failing roofs

PRODUCT INFORMATION

Composition	Elastomeric aromatic polyurethane
Packaging	25.0 kg metal pails
Colour	Grey
Shelf life	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 +5 °C and +25 °C. Higher storage temperatures may reduce shelf life of product. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.

Density	~1.40 kg/l (20 °C)	(EN ISO 2811-1 / DIN 53217 / ASTM D1475)
Flash point	+35 °C (closed cup)	(ASTM D93)
Viscosity	2000 - 3500 mPa·s	(ASTM D4287)
Solid content by mass	~83 %	

TECHNICAL INFORMATION

Shore A hardness	60 (±5)	(DIN 53505)
Tensile strength	> 6 N/mm ²	(EN ISO 527-3)
Tensile strain at break	~600 % (at 23 °C)	(EN ISO 527-3)
Resistance to thermal shock	up to +200 °C (short-term)	
External fire performance	Broof (t1)	
Reaction to fire	Class E	
Service temperature	Minimum	-20 °C
	Maximum	+90 °C

APPLICATION INFORMATION

Consumption	Sikalastic® M 640 is applied in 1 or 2 coats. Appox. 1.5 - 2.0 kg/m ² depending on the system configuration. For airless application consumption is minimum 0.8 kg/m ² per coat.	
Ambient air temperature	Minimum	+5 °C
	Maximum	+35 °C
Relative air humidity	80 % r.h.	
Dew point	Beware of condensation! The substrate and uncured membrane must be at least 3°C above dew point to reduce the risk of condensation or blooming of the membrane finish.	
Substrate temperature	Minimum	+5°C
	Maximum	+35°C
Substrate moisture content	≤ 4% pbw moisture content. Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).	

Substrates

Substrate	Primer
Concrete, Ceramic tiles (unglazed)	Sikalastic®-1C PRIMER PU, Sika® Bonding Primer, Sika® Concrete Primer, Sikalastic® Primer MP or other approved suitable primer
Bituminous felt & coating	Sikalastic® Metal Primer or other approved suitable primer
Metals Ferrous or galvanised metals, lead, copper, aluminium, brass or stain- less steel	Sikalastic® Metal Primer or other approved suitable primer
Wooden substrates	Sikalastic®-1C PRIMER PU, Sika® Bonding Primer , Sika® Concrete Primer, Sikalastic® Primer MP or other approved suitable primer
Existing Sikalastic® membrane	Sika® Reactivation Primer, Sikalastic®-1C PRIMER PU, Sika® Concrete Primer or other approved suitable primer

Note: For the consumption rates and waiting time / overcoating please refer to the PDS of the appropriate primer. Other substrates must be tested for their compatibility. If in doubt, apply a test area first.

Pot Life	40 min. (at 20 °C)
Curing time	Fully cured after 7 days
Tack free time	6 hours (at 25 °C & 55 % r.h.)
Waiting time to overcoating	6 - 24 hours
Applied product ready for use	Approx. 12 hours

Systems

Reinforced Roof Waterproofing

Sikalastic® M 640 is applied in one coat reinforced with Sika®-120 Reemat and sealed with a further coat of Sikalastic® M 640

Layer	Product	Consumption
Primer	Refer to below primer table	Refer to PDS of the primer
Base coat	Sikalastic® M 640	≥1.0 kg/m ²
Reinforcement	Sika®-120 Reemat	–
Second coat	Sikalastic® M 640	≥1.0 kg/m ²
Top coat	Sikalastic®-670 TC / Sikalastic®-701	≥0.3 kg/m ²

Note: Sikalastic®- 670 TC / Sikalastic®-701 is not required to not exposed roofs.

Non-reinforced Roof Waterproofing

Sikalastic® M 640 is applied in 1 or 2 coats

Layer	Product	Consumption
Primer	Refer to below primer table	Refer to PDS of the primer
Base coat	Sikalastic® M 640	≥0.80 kg/m ²
Second coat	Sikalastic® M 640	≥0.70 kg/m ²
Top coat (optional)	Sikalastic®-670 TC / Sikalastic®-701	≥0.3 kg/m ²

Note: For the consumption rates and waiting time / overcoating please refer to the PDS of the appropriate product.

Note: It always recommended to apply a top coat, in order to increase system performance.

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

Installation work must only be carried out by Sika trained and approved contractors, experienced in this type of application.

- Do not use Sikalastic® M 640 for indoor applications.
- Do not apply Sikalastic® M 640 on substrates with rising moisture.
- Do not dilute Sikalastic® M 640 with any solvent.
- Do not apply Sikalastic® M 640 close to the air intake vent of a running air conditioning unit. Switch-off units and seal intakes before applying.
- On substrates likely to exhibit outgassing, apply Sikalastic® M 640 during falling ambient and substrate temperature. If applied during rising temperatures "pin holing" may occur from rising air.
- Do not apply Sikalastic® M 640 directly on Sikalastic® Insulation boards. Instead use Sikalastic® Carrier between Sikalastic® Insulation board and Sikalastic® M 640.
- Areas with high movement, irregular substrates, or timber based roof decks require a complete layer of Sikalastic® Carrier.
- Sikalastic® M 640 is not suitable for permanent water immersion.
- Volatile bituminous materials may stain and/or soften below the coating.
- Sikalastic® M 640 may exhibit slight chalking at the surface – do not use run off water for live fish tanks, etc.
- Low melting point bituminous materials may need priming – using a darker shade also helps hide any staining from the volatiles.

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

Substrate preparation equipment

- Abrasive blast cleaning / planing / scarifying or grinding equipment

Mixing Equipment

- Electric single paddle mixer

Application Equipment

- Brush
- Roller
- Airless spray

SUBSTRATE QUALITY

Concrete substrates must be sound and of sufficient compressive strength ($\geq 25 \text{ N/mm}^2$) with a minimum pull off strength of 1.5 N/mm^2

SUBSTRATE PREPARATION

The surface must be of sufficient structural strength, clean, dry and free of dirt, oil, grease and other contamination. Depending on the material the substrate must be primed and mechanically cleaned. Grinding may be necessary to level the surface. Complete roof system must be designed and secured against wind uplift loadings.

Refer to the Sika Method Statement: Sikalastic® M 640 Suitable substrates are such as: concrete, bituminous membrane, metal, asbestos cement, unglazed ceramic tiles and wooden substrates.

MIXING

Prior to application, stir Sikalastic® M 640 gently but thoroughly at least for 1 minute in order to achieve a homogeneous mixture. For mixing, an electric single paddle mixer (300-400 r.p.m.) with a spiral blade can be used. Over mixing must be avoided to minimize air entrainment.

APPLICATION

Prior to application, confirm substrate moisture content, r.h. and dew point.

Prior the application of Sikalastic® M 640 the priming coat must have cured, tack-free. For the Waiting Time / Overcoating please refer to the PDS of the appropriate primer.

Non-Reinforced Roof Waterproofing:

Sikalastic® M 640 is applied in two coats. Prior to the application of the 2nd coat the indicated waiting time of overcoating shall be allowed. Roof coatings may need partial reinforcement over areas of stress or expected movement e.g. joints, overlaps, detailing, crack bridging etc. Use Sika® Joint Tape SA or strips of Sika®-120 Reemat. For joints with moderate movement e.g. Metal Sheet use Sika® Joint Tape SA.

Reinforced Roof Waterproofing:

Sikalastic® M 640 is applied in combination with Sika®-120 Reemat. Over-coating of bitumen membranes has to be fully reinforced.

1. Apply the first coat, for correct consumption refer to the table of the relevant system of Sikalastic® M 640. Work only so far in advance that the material stays liquid.
2. Roll in the Sika®-120 Reemat and ensure that there are no bubbles or creases. Overlapping must be a minimum 5 cm and ensure overlaps are sufficiently wet to bond.
3. The roller may require only a little extra material to keep wetted but no further significant material needs to be added at this stage.
4. After the coat is dry enough to walk on, seal the roof area with second coat of Sikalastic® M 640 at a minimum consumption of the relevant system. Always begin with details prior starting with waterproofing the horizontal surface. For details follow step 1-4.

Note: The applicator must wait 6 - 24 hours between coats. If the overcoating time is exceeded, more than 3 days, Sika® Reactivation Primer, Sika® Concrete Primer, Sikalastic®- 1C PRIMER PU or other approved suitable primer must be applied in accordance with primer Product Data Sheet.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened or cured 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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