

PRODUCT DATA SHEET

Sikalastic® Rapid Levelling Mortar

THREE COMPONENT, PMMA BASED SELF-LEVELLING MORTAR

PRODUCT DESCRIPTION

Sikalastic® Rapid Levelling Mortar is used as a protective layer, thick film coating or equalising mortar. As part of Sikalastic® Rapid Trafficable (Waterproofing & Wearing) System it protects the waterproofing layer against the impact of foot traffic on account of its load distributing effect (protective layer). In the case of areas that are either free from cracks or have only hairline cracks, it is used as a thick film coating without the waterproofing layer as part of the Sikalastic Rapid Trafficable (Wearing System). Furthermore it is used as an equalising mortar to level out areas of damage and up to 10mm height differences.

USES

- Protective layer, thick film coating or equalising mortar for Sikalastic® Rapid Trafficable systems
- For new construction and refurbishment projects

CHARACTERISTICS / ADVANTAGES

- Fast-curing
- Easy and fast application
- Cold applied
- Solvent-free
- Seamless membrane

PRODUCT INFORMATION

Chemical Base	Three-component Polymethylmethacrylate (PMMA) Resin, powder and catalyst.	
Packaging	SUMMER	
	Sikalastic® Rapid Levelling Mortar Resin	10 Kg
	Sikalastic® Rapid Levelling Mortar Powder	23 Kg
	Sikalastic® Rapid Catalyst	2x0.1 Kg
	Total	33.20 Kg
	WINTER	
	Sikalastic® Rapid Levelling Mortar Resin	10 Kg
	Sikalastic® Rapid Levelling Mortar Powder	23 Kg
	Sikalastic® Rapid Catalyst	4x0.1 Kg
	Total	33.40 Kg
Appearance / Colour	RAL 7032 (Pebble Grey)	
Shelf Life	12 months	

Storage Conditions

Store products sealed in their original airtight container and in a cool, dry and frost-free place.
Direct sunlight on the containers should be avoided, including on site. After removing some of the contents, reseal the containers so they are airtight. Reference should also be made to the storage recommendations of the material safety datasheet.

Density 1.76 g/cm³

APPLICATION INFORMATION

Consumption Sikalastic®-Rapid Levelling Mortar 4.0kg/m²

Ambient Air Temperature +3 °C min. / +35 °C max.

Relative Air Humidity The relative humidity must be ≤90%

Dew Point Beware of condensation. Surface temperature during application and cure must be a minimum of 3°C above dew point.
The substrate temperature must not be less than +3°C if a topping is applied to the surface. Reaction problems can occur at lower temperatures.

Substrate Temperature +3 °C min. / +50 °C max.

Substrate Moisture Content The surface to be coated must be dry and ice-free
The surface must be protected from moisture until the coating has hardened

Pot Life The material in opened containers should be applied immediately
At 20°C, 2% catalyst the pot life is approximately 15 minutes

Curing Time	Temperature	Catalyst	Rain Resistant	Can be trafficked/overcoat	Full Cure
	20°C	2%	30 minutes	1 hour	3 hours

Note: Times are approximate and will be affected by changing ambient conditions.

Higher temperatures or greater proportions of Sikalastic Rapid Catalyst will reduce reaction times, while lower temperatures and smaller proportions of Catalyst will increase reaction times.

The following table indicates the recommended amount of Sikalastic Rapid Catalyst required to adjust the curing reaction to the temperature.

Substrate temperature in °C; required amounts of Sikalastic Rapid Catalyst in % w/w (guide)

-5	+3	5	10	15
N/A	6%	6%	4%	4%
20	25	30	35	40
2%	2%	2%	2%	1%
45	50			
1%	1%			

Return-to-service times are provided as a guide only and may vary as a result of conditions. Newly installed balconies should be protected from exposure to heavy traffic by overlaying with an appropriate protective covering. This is particularly critical where early access is needed by other construction related traffic. Sika Liquid Plastics will not be held responsible for damage to balcony surfaces that results from failures to adequately protect newly laid areas.

For further advice, consult Sika Liquid Plastics Technical Customer Services

APPLICATION INSTRUCTIONS

MIXING

Use a twin-paddle stirrer to mix the product
First stir the base resin thoroughly and transfer to a mixing container. Add the Sikalastic® Rapid Levelling

Mortar Powder while stirring and continue until a smooth consistency is achieved (no lumps).
Then add the Sikalastic® Rapid Catalyst while stirring the resin at the slow speed setting and mix for 2 minutes. Make sure that the product on the base and sides of the container is mixed in.

At product temperatures <10°C the product should be

stirred for 4 minutes, as the catalyst will take longer to dissolve.

APPLICATION

For applying the product:
Coating trowel with triangular teeth (notch pattern 92) or Smoothing trowel
Use a notched or smoothing trowel to apply an even coat of the mixed levelling mortar (approx. 4.0kg/m²).

Refer to Sikalastic® Rapid Method Statement for more information

Preparation for subsequent layers:

Surfacing supplied by others and applied subsequently:

Fully bonded surfacing (e.g. tiles) While the levelling mortar is still liquid, top with a generous amount of Sikalastic Rapid Aggregate
Vacuum off the excess/loose sand after the surface has hardened. The sand topping creates the necessary roughness (key) and absorbency for the subsequent application of surfacing supplied by others. Only use dry quartz sand (e.g. Sikalastic Rapid Aggregate).

Application as equalising mortar

To equalise layer thicknesses of between 3 mm and 10 mm, add additional amounts of coarse, fire dried quartz sand (1-2 or 2-3 mm) to the mixed levelling mortar before adding the Sikalastic Rapid Catalyst (15–20kg sand to 33 kg levelling mortar). Once the catalyst has been mixed in and dissolved, apply the mortar using a trowel.

CLEANING OF TOOLS

If work is interrupted or when it is completed, clean the tools thoroughly with Sikalastic® Rapid Cleaner within the pot life of the material (approx. 10 minutes). This can be done with a brush. Do not use the tools again until the Cleaner has evaporated fully. Simply immersing the tools in the Cleaner will not prevent the material hardening.

LIMITATIONS

Applications of Sikalastic® Rapid Levelling Mortar in confined spaces must be undertaken in accordance with material safety datasheet recommendations. Do not apply close to the air intake vents of running air conditioning units until either switched off or isolated as vapour may be drawn into the building. Adhesion suitability must be verified practically on site prior to commencing contract. Refer to Sika Liquid Plastics recommendations and this Technical Data Sheet for installation guidance. This document provides the most up to date information at the time of print, but is subject to change without notice and should not be used in isolation for pricing purposes. Please refer to Sika Liquid Plastics for project specific information and the latest advice.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

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.

TECHNICAL ENQUIRIES

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