

## PRODUCT DATA SHEET

# SikaWall®-560 Thixo

## THIXOTROPIC MOULDING MORTAR

### DESCRIPTION

SikaWall®-560 Thixo is a one part, white or coloured thixotropic moulding mortar based on hydraulic binders.

Suitable for use in hot and tropical climate conditions.

### USES

- Suitable for the creation and reconstruction of decorative features
- Suitable for the creation of artificial textures
- Suitable for the creation of structures imitating rock
- Suitable for the creation of walls on artificial supporting structures or mouldings
- Suitable for application over artificial substrates (e.g. metal and polyethylene mesh)

### FEATURES

- Thixotropic
- Easy to use
- Excellent workability
- Can be applied by wet-spray method
- Non-corrosive
- Adjustable "creamy" consistency

### PRODUCT INFORMATION

<b>Composition</b>	White cement, hydrated lime, limestone and silica sand, mineral pigments and specific adjuvants
<b>Packaging</b>	25 kg and 40 kg bags
<b>Shelf life</b>	12 months from the date of production.
<b>Storage conditions</b>	Store in dry conditions in original sealed undamaged packaging at temperatures between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture.
<b>Maximum grain size</b>	1.2 mm
<b>Bulk density</b>	~1.6 kg/l (at 25°C)

### TECHNICAL INFORMATION

<b>Compressive strength</b>	~10 N/mm <sup>2</sup> at 25°C
<b>Shrinkage</b>	< -200 microstrain

## APPLICATION INFORMATION

<b>Consumption</b>	~1.6 kg/m <sup>2</sup> /mm (consumption based on dry material, without addition of water) This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level or wastage, etc.
<b>Layer thickness</b>	Min. 1 cm Max. 15 cm
<b>Ambient air temperature</b>	+5 °C min. / +35 °C max.
<b>Relative air humidity</b>	max. 75 %
<b>Mixing ratio</b>	4.5 L to 5 L of water per 25 kg bag 7.2 L to 8 L of water per 40 kg bag
<b>Substrate temperature</b>	+5 °C min. / +35 °C max.
<b>Pot Life</b>	~20 min (at 25 °C and 50 % r.h.)
<b>Open Time</b>	~15 min (at 25 °C and 50 % r.h.) ~10 min (at 35 °C and 50 % r.h.)

## 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

- Do not use more water than recommended, always follow water to powder ratio as stated in Product Data Sheet. Over-watering may lead to liquid or less thixotropic consistency of product.
- SikaWall®-560 Thixo is a hydraulic binder based mortar. Its shrinkage may lead to cracking which does not affect its performance. Relief features such as rocks, tree trunks, etc. can easily integrate this cracking. However, it is more visible on smooth decorative features.

## 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

### SUBSTRATE QUALITY

For the creation of decorative features, the product must be applied on framework (expanded metal or polyethylene mesh) attached to a load bearing structure (masonry or concrete wall, metal frame, composite frame).

## MIXING

Add cold water according to the mixing ratio into a clean mixing vessel before slowly adding the SikaWall®-560 Thixo powder. SikaWall®-560 Thixo should be mixed by using low speed electric mixer (approximate 300 to 400 rpm) for 2-3 minutes or until the mix is free of lumps. After a short maturing time, mix again thoroughly. In case of higher water temperature, the water could be cooled down by using clean ice.

## APPLICATION

Apply a first layer approximately 2 cm thick to stiffen the supporting framework and leave to dry for at least 12 to 36 hours, depending on the climatic conditions. Apply a second layer in successive passes (up to 15 cm thick in places on specific relief features) until the desired thickness is obtained. Depending on the ambient conditions, this 2<sup>nd</sup> layer can be applied in successive passes immediately or with a waiting time of up to 1 hour between passes.

SikaWall®-560 Thixo can then be moulded during its plastic phase to obtain the rough outline of the desired feature.

After hardening slightly, SikaWall®-560 Thixo can then be cut while still soft to roughly carve out the main shapes.

After full hardening, the decorative features are finished by shaping using cutting tools and/or the recreating the grain to obtain the desired final appearance.

## 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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ISO 9001, 14001 – SGS  
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ISO 9001, 14001 – TÜV  
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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



### Product Data Sheet

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