

## PRODUCT DATA SHEET

# SikaFill®-380 Thermic

Elastic waterproofing covering with thermal properties

## DESCRIPTION

SikaFill®-380 Thermic is an elastic covering of creamy consistency, based on styrene-acrylic copolymers in aqueous emulsion. It is specially designed to improve the insulating capacity of the covering in a simple and economical way. The product is externally certified by Paslink cell testing. SikaFill®-380 Thermic after curing forms a flexible, waterproofing and durable membrane using Duralastic technology.

## USES

Waterproofing of visitable roofs on different types of substrates:

- Catalan tiled terrace
- Fibre cement
- Roof tiles
- Brick
- Mortars
- Concrete
- Asphalt sheets with aluminium or slate finish
- Vertical side walls, pipings, etc.
- Bridgings of joints and cracks
- Repair of tiles and zinc gutters
- Treatment of meeting points in chimneys

## PRODUCT INFORMATION

<b>Composition</b>	Aqueous emulsion based on styrene-acrylic copolymers with aggregates
<b>Packaging</b>	12.0 kg pail
<b>Shelf life</b>	12 months from date of production
<b>Storage conditions</b>	Stored it in undamaged and unopened, original sealed bags. Store in cool and dry conditions. Protect it from frost and direct sunlight. Always refer to packaging.
<b>Colour</b>	White
<b>Density</b>	~0.87 kg/lit

To apply on PVC or polyester substrates, and on paint, it is recommended to carry out previous tests to determine their compatibility and whether it is necessary to carry out a sanding beforehand.

## FEATURES

- Waterproof to rain and splashes
- It highlights its thermal properties
- High elasticity
- High durability
- Cold application
- Resistant to microcracking
- Good crack bridging properties
- Good adhesion to most substrates: concrete, mortar, fibre cement, tiles, bricks, bituminous
- Non-toxic and non-flammable

## CERTIFICATES AND TEST REPORTS

- Conformity with LEED v4 SSc 5 (Option 1): Heat Island Reduction - Roof (only white colour).

Solid content by mass 55 %

## TECHNICAL INFORMATION

Tensile resistance	≥10 kg/cm <sup>2</sup>		
Tensile strain at break	200 %		
Solar reflectance	Initial Solar Reflectance	0.76 (+/- 0.02)	(ASTM C1549)
Thermal emittance	Initial Thermal Emittance	0.91 (+/- 0.01)	(ASTM C1371)
Solar reflectance index	Initial SRI (Medium Wind)	95 (+/- 1)	(ASTM E1980-11)
Foldability at low temperature	No cracking (at -5 °C).		

## SYSTEM INFORMATION

System structure Primer: 1x SikaFill®-380 Thermic diluted  
Coating: 2x SikaFill®-380 Thermic

## APPLICATION INFORMATION

Yield	<b>On roofs:</b> At least 1 kg/m <sup>2</sup> in three or more coats, applying 0.30 - 0.50 kg/m <sup>2</sup> per coat. <b>On vertical surfaces:</b> At least 0.75 kg/m <sup>2</sup> applied in two or three coats.	
Ambient air temperature	Minimum	+5 °C
	Maximum	+35 °C
Substrate temperature	Minimum	+5 °C
	Maximum	+35 °C
Drying time	Touch dry	Approx. 2 hours (at 20 °C)
	Total dry	Approx. 3 - 5 hours (at 20 °C)

## 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.

## IMPORTANT CONSIDERATIONS

- SikaFill®-380 Thermic must not be used in places where it is in permanent contact with water, either by storage, puddling or condensation
- SikaFill®-380 Thermic is a finishing paint. It must not be coated
- Do not place sharp objects on the membrane
- Not recommended for constant or prolonged immersion
- At least 2 coats must be applied on the priming

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### EQUIPMENT

#### Substrate preparation equipment

- Abrasive blast cleaning / planing / scarifying or grinding equipment
- High pressure power washer

#### Mixing Equipment

- Electric single paddle mixer

#### Application Equipment

- Brush
- Roller

## 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  $1.5 \text{ N/mm}^2$ .

## SUBSTRATE PREPARATION

All surfaces to be coated should be thoroughly cleaned by conventional means. The substrate must be clean and free from all contaminants such as dirt, oil, grease, coatings and surface treatments, e.t.c. which prevent adhesion.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repair the substrate, using appropriate Sika Mono-Top® or SikaRep® repair mortars.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

## MIXING

Prior to application, stir SikaFill®-380 Thermic 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.

## APPLICATION

Apply with a short-haired roller or a brush. Apply a coat with a short-haired roller or a brush of the product diluted in the proportion of 3 parts by volume of SikaFill®-380 Thermic to 1 part water, making sure that it penetrates well into all cracks and crevices. Once the primer has dried (approximately 12 hours after application under normal conditions of temperature and relative humidity), apply successive coats of SikaFill®-380 Thermic until the desired film thickness is achieved.

Before applying a new coat, the previous coat must be completely dry.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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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