

# PRODUCT DATA SHEET

## Sikagard<sup>®</sup>-730 Thixo

### MASONRY WATER REPELLENT IN CREAM FORM

#### DESCRIPTION

Sikagard<sup>®</sup>-730 Thixo is an aqueous, solvent based, ready-to-use, creamy consistency, hydrophobic impregnating agent based on a mixture of silane and siloxane. Sikagard<sup>®</sup>-730 Thixo is a high performance water repelling impregnation for the protective treatment of masonry and natural stone structures.

#### USES

Sikagard<sup>®</sup>-730 Thixo is typically used for the protection of facades and walls or other structures made with masonry bricks, and artificial or natural stone, particularly lime-sandstone and sandstone.

#### CHARACTERISTICS / ADVANTAGES

- Easy to apply
- One coat application

- Fast absorption and penetration
- Deep penetration depth
- Does not change the appearance of the substrate
- Good surface water-beading effect
- High water penetration resistance
- Long term protection
- Can be overcoated with organic paint.

#### APPROVALS / CERTIFICATES

- Belgium Building Research Institute - Initial effectiveness, secondary effects and durability of water repellent "Sikagard<sup>®</sup>-730 Thixo", Report DE 622X847/EXT E Lab REN
- Belgian Building Research Institute - Determination of the water vapour resistance and the water absorption coefficient applied on a masonry clay unit, Report DE 621XB570 LMA 5612, Dated 16/12/2014

#### PRODUCT INFORMATION

<b>Chemical base</b>	Silane / siloxane combination.
<b>Packaging</b>	25 kg pails and 180 kg drums.
<b>Appearance / Colour</b>	White to yellowish cream.
<b>Shelf life</b>	12 months from date of production if stored in unopened, undamaged and original sealed packaging.
<b>Storage conditions</b>	Store in dry and cool conditions. Protect from moisture.
<b>Density</b>	~ 0.85 kg/l (at +20 °C)
<b>Flash Point</b>	75°C (ISO 2592)
<b>Active Content</b>	~25%

## TECHNICAL INFORMATION

Permeability to Water Vapour	Substrate	Substrate with Sikagard®-730 Thixo	Sikagard®-730 Thixo	(EN ISO 12572)
Equivalent air thickness $S_d$ (m)	0.35	0.037	0.018	

  

Capillary Absorption	Substrate	Substrate with Sikagard®-730 Thixo	(EN ISO 15418)
Water absorption coefficient after 24h - $A_{w,24}$ [kg/m <sup>2</sup> s <sup>0.5</sup> ]	0.046	0.015	

## APPLICATION INFORMATION

<b>Consumption</b>	Dependent on absorbency of the substrate as well as the required penetration depth: ~ 200 g/m <sup>2</sup> per coat. Normally, 1 coat is enough – preliminary trial shall be carried out to assess the penetration depth in the substrate.
<b>Ambient Air Temperature</b>	+5 °C min. / +40 °C max.
<b>Substrate Temperature</b>	+5 °C min. / +40 °C max.
<b>Waiting Time / Overcoating</b>	Can be over-coated with water and solvent based polymer paints - contact the paint manufacturer for details and confirmation of suitability. For over-coating with Sikagard®, SikaColor® Emulsion or solvent based coating, wait at least 5 hours after the hydrophobic impregnation.
<b>Curing Treatment</b>	Sikagard®-730 Thixo does not require special curing but must be protected from rain for at least 3 hours at +20 °C.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Clean, sound, free of dust, dirt, oils and grease, efflorescence and old paint coatings etc.  
Cracks more than 300 µm must be repaired first prior to carry out the hydrophobic treatment.  
Cleaning should be done by light blast cleaning, steam cleaning, low pressure cleaning (less than 18 MPa–180 bars), grinding, etc. No tension active product shall be used for the cleaning.  
Best results are obtained on dry, very absorbent substrates – allow enough time for the substrate to dry out after surface preparation.  
New brick structures shall be cleaned with acid cleaner to remove cement laitance, then rinse thoroughly with clean water – follow the safety recommendation of the manufacturer during the acid cleaning.  
The substrate must look dry with no damp patches (surface humidity lower than 6%).

### APPLICATION

Sikagard®-730 Thixo is supplied ready for use and shall not be mixed as this could break down the emulsion and thixotropic properties of the product.  
For large areas, the best method of application is by

airless spray or automatic feeding long haired roller in one operation. For smaller areas, Sikagard®-730 Thixo can also be applied by brush or long-haired/ long-piled roller.

Please refer to the Sikagard®-730 Thixo Method Statement, which is available as a separate document, for more specific information and details.

If a second coat is required (special cases), allow the substrate to dry out from the first application.

### CLEANING OF TOOLS

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be removed mechanically.

### LIMITATIONS

- Cement based substrates must be at least seven days old.
- Protect glass surfaces and aluminium frames (possibility of surface damage / staining).
- Test on a sample surface before use.
- Cannot be overcoated with limewash or cementitious coatings.
- On all substrates, the optimum water repellent capability is achieved after a few days.

- On natural limestone (and marble), check the performance as due to the nature of the stone, the efficiency may be reduced.
- Refer to the method statement for more precision on the application procedure.

## 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.

## 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.

## 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.

## 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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