

# PRODUCT DATA SHEET

## Sikasil® Pool

Silicone sealant for swimming pools and wet areas

### DESCRIPTION

Sikasil® Pool is a 1-part, neutral curing silicone sealant for use in swimming pools and permanently wet areas.

### USES

Sealing joints around swimming pools:

- Areas under permanent water immersion
- Wet areas between tiles, concrete, glass and metals.
- For interior and exterior use

### CHARACTERISTICS / ADVANTAGES

- Very good water resistance
- High chlorine resistance
- Movement capability  $\pm 25\%$
- Very good resistance to fungal attack
- Neutral curing, non-corrosive
- High elasticity and flexibility

### PRODUCT INFORMATION

Composition	Neutral curing silicone	
Packaging	300 ml cartridge	12 cartridges per box
	Refer to current price list for packaging variations	
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. Always refer to packaging.	
Colour	White, grey, transparent	
Density	~1.05 kg/l	(ISO 1183-1)

### TECHNICAL INFORMATION

Shore A Hardness	~20 (after 28 days)	(ISO 868)
Tensile Strength	~1.5 N/mm <sup>2</sup>	(ISO 8339)
Secant Tensile Modulus	~0.30 N/mm <sup>2</sup> at 100 % elongation (23 °C)	(ISO 8339)
Movement Capability	$\pm 25\%$	(ISO 9047)
Elastic Recovery	> 90 %	(ISO 7389)
Tear Propagation Resistance	~4.0 N/mm	(ISO 34)

<b>Service Temperature</b>	-40 °C to +80 °C
<b>Chemical Resistance</b>	Resistant to chlorine and cleaning chemicals. Contact Sika Technical Services for additional information.
<b>Joint Design</b>	The joint dimensions must be designed to suit the movement capability of the sealant. The joint width must be a minimum of 10 mm and a maximum of 15 mm. The joint depth must be a minimum of 6 mm and a maximum of 10 mm. For larger joints, contact Sika Technical Services for additional information.

## SYSTEM INFORMATION

<b>Compatibility</b>	Compatible with the following substrates: <b>Non-porous substrates</b> Aluminium, anodised aluminium, stainless steel, copper, brass, titanium-zinc, PVC, galvanised steel, powder and PVDF coated metals, glazed tiles, glass <b>Porous substrates</b> Concrete, unglazed tiles For other types of substrates, contact Sika Technical Services for additional information.
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## APPLICATION INFORMATION

<b>Consumption</b>	<b>Joint width</b>	<b>Joint depth</b>	<b>Joint length per 300 ml cartridge</b>
	10 mm	8 mm	3.5 m
	15 mm	10 mm	2 m
<b>Sag Flow</b>	< 2 mm (20 mm profile, +23 °C)		(ISO 7390)
<b>Ambient Air Temperature</b>	+5 °C min. / +40 °C max.		
<b>Substrate Temperature</b>	+5 °C min. / +40 °C max. Minimum +3 °C above dew point temperature		
<b>Backing Material</b>	Use closed cell, polyethylene foam backing rod		
<b>Curing Rate</b>	~2.0 mm/24 hours (+23 °C / 50 % r.h.)		(CQP* 049-2) * Sika Corporate Quality Procedure
<b>Skin Time</b>	~5 minutes (+23 °C / 50 % r.h.)		(CQP 019-1)

## 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.

## FURTHER INFORMATION

- Pre-treatment Sealing and Bonding Chart
- Sika Method Statement: Joint Sealing
- Sika Method Statement: Joint Maintenance, Cleaning and Renovation

## IMPORTANT CONSIDERATIONS

### General

- Cannot be overpainted.
- Colour variations may occur due to the exposure in service to chemicals, high temperatures and / or UV-radiation (especially with white colour shade). This effect is aesthetic and does not adversely influence

the technical performance or durability of the product.

- Do not use on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might leach oils, plasticisers or solvents that could degrade the sealant.
- Do not use for structural or insulated glazing.
- Do not use for medical or pharmaceutical applications.
- Do not use for food contact applications.
- Before applying onto natural stone, contact Sika Technical Services.

### Swimming pools / warm water whirlpools

- Sikasil® Pool must be cured completely before filling the pool; minimum of 7 days (depending on the temperature, humidity and thickness of sealant).
- The resistance of sealant to chlorine is dependent on the water pH value and the amount of free chlorine.
- Sikasil® Pool can be used in swimming pools and warm water whirlpools in which a pH value between 6.5 and 7.6 is maintained, and the free chlorine remains less than 5 mg/l (5 ppm).

- To reduce the risk of fungal attack on the Sikasil® Pool. The free available chlorine level must not be  $\leq 0.3$  mg/l in swimming pools and  $\leq 0.7$  mg/l in warm water whirlpools. Continuous water circulation is required to avoid chlorine concentrations.
- If there is a very strong smell of chlorine, check the water pH value and adjust concentration.
- Do not use acid-based detergents as they increase the danger of fungal attack.
- When joints are reconstructed due to fungal attack, Sikasil® Pool must be removed completely.

## 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 PREPARATION

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, grease, cement laitance and old sealants which could affect adhesion of the sealant. The substrate must be of sufficient strength to resist the stresses induced by the sealant during movement.

Removal techniques such as wire brushing, grinding, grit blasting or other suitable mechanical tools can be used.

All dust, loose and friable material must be completely removed from all surfaces before application of any activators, primers or sealant.

Sikasil® Pool adheres without primers and/or activators.

For optimum adhesion and joint durability the following priming and/or pre-treatment procedures must be followed:

#### Non-porous substrates

Aluminium, anodised aluminium, stainless steel, PVC, galvanised steel, powder coated metals or glazed tiles. Slightly roughen surface with a fine abrasive pad.

Clean and pre-treat using Sika® Aktivator-205 applied with a clean cloth.

Before sealing, allow a waiting time of  $> 15$  minutes ( $< 6$  hours).

Other metals, such as copper, brass and titanium-zinc, clean and pre-treat using Sika® Aktivator-205 applied with a clean cloth. After a waiting time of  $> 15$  minutes ( $< 6$  hours). Apply Sika® Primer-3 N applied by brush. Before sealing, allow a waiting time of  $> 30$  minutes ( $< 8$  hours).

PVC has to be cleaned and pre-treated using Sika® Primer-215 applied with a brush. Before sealing, allow a waiting time of  $> 30$  minutes ( $< 8$  hours).

Glass must be cleaned with Isopropanol before application

#### Porous substrates

Concrete and unglazed tiles must be primed using Sika® Primer-3 N applied by brush. For more details such as application and flash-off times, refer to the

most recent Product Data Sheet of the respective pre-treatment product.

Before sealing, allow a waiting time of  $> 30$  minutes ( $< 8$  hours).

Adhesion tests on project specific substrates must be performed and procedures agreed with all parties before full project application.

Note: Primers and activators are adhesion promoters and not an alternative to improve poor preparation / cleaning of the joint surface. Primers also improve the long term adhesion performance of the sealed joint. Contact Sika Technical Services for additional information.

### MIXING

1-part ready to use

### APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

#### Masking

It is recommended to use masking tape where neat or exact joint lines are required. Remove the tape within the skin time after finishing.

#### Joint Backing

After the required substrate preparation, insert a suitable backing rod to the required depth.

#### Priming

If required, prime the joint surfaces as recommended in substrate preparation. Avoid excessive application of primer to avoid causing puddles at the base of the joint.

#### Application

Sikasil® Pool is supplied ready to use.

Prepare the end of the foil pack or cartridge, insert into the sealant gun and fit the nozzle. Extrude Sikasil® Pool into the joint ensuring that it comes into full contact with the sides of the joint and avoiding any air entrapment.

#### Finishing

As soon as possible after application, sealant must be firmly tooled against the joint sides to ensure adequate adhesion and a smooth finish.

Use a compatible tooling agent to smooth the joint surface. Water can be used. Do not use tooling products containing solvents.

### CLEANING OF TOOLS

Clean all tools and application equipment immediately after use with Sika® Remover-208. Hardened material can only be removed mechanically. For cleaning skin, use Sika® Cleaning Wipes-100.

## 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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### **Product Data Sheet**

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