

# Sikasil<sup>®</sup>-Pool

## Neutral curing silicone sealant for swimming pools and permanently wet areas

**Product Description** Sikasil<sup>®</sup>-Pool is a one part neutral curing silicone sealant for use in swimming pools and permanently wet areas.

**Uses** Sikasil<sup>®</sup>-Pool is suitable for joints in and around swimming pools, areas under permanent water immersion and frequently wet areas, such as shower rooms in sports halls or leisure facilities, between ceramics, tiles, concrete, glass, metals and other typical building substrates, etc.

**Characteristics / Advantages**

- Very high water resistance
- High chlorine resistance (as required in swimming pools due to use of disinfecting solutions)
- Extremely high resistance to fungal attack
- Excellent UV and weathering resistance
- High tear resistance
- Non-corrosive
- High elasticity and flexibility

### Product Data

**Form**

**Colours** White and transparent

**Packaging** 300 ml cartridges, 12 cartridges per box

**Storage**

**Storage Conditions / Shelf Life** 12 months from date of production if stored in undamaged and unopened original sealed containers, in dry conditions and protected from direct sunlight at temperatures between +10°C and +25°C.

### Technical Data

**Chemical Base** Oxime silicone, neutral curing

**Density** ~ 1.05 kg/l (transparent colour) (DIN 53 479)

**Skinning Time** ~ 5 minutes (+23°C / 50% r.h.)

**Curing Rate** ~ 2.0 mm/24h (+23°C / 50% r.h.)

**Movement Capability** 25%

Construction



**Sag Flow** < 2 mm (DIN EN ISO 7 390)

**Service Temperature** -40°C to +180°C (Dry conditions)

### Mechanical / Physical Properties

**Tensile Strength** ~ 1.5 N/mm<sup>2</sup> (+23°C / 50% r.h.) (ISO 8339)

**Tear Strength** ~ 4.0 N/mm<sup>2</sup> (+23°C / 50% r.h.) (DIN 24 method C))

**Shore A Hardness** ~ 20 (after 28 days) (ISO 868)

**E-Modulus** ~ 0.3 N/mm<sup>2</sup> at 100% elongation (+23°C / 50% r.h.) (ISO 8339)

**Elastic Recovery** > 90% (+23°C / 50% r.h.) (ISO 7389)

### System Information

#### Application Details

##### Consumption

##### *Joint Design:*

The joint width must be designed to be within the movement capability of the sealant. Movement joint widths with Sikasil Pool shall be > 10 mm and < 15 mm. Sikasil Pool shall not be used in joints of more than 15 mm width and a minimum depth or thickness of 6 mm must be applied.

Joint width	10 mm	15 mm
Joint depth	8 mm	10 mm
Joint length / 300 ml	~ 3.5 m	~ 2 m

##### Substrate Quality

Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Cement laitance must be removed.

##### Substrate Preparation / Priming

##### *Stainless, steel, PVC, GRP, Stainless steel*

Surfaces must be cleaned using a fine abrasive pad followed by SikaCleaner® 205 using a clean towel / cloth. There shall be a 'flash-off time' of at least 15 min.

##### *Concrete, tiles, glazed tiles:*

Surfaces must be primed with SikaPrimer®-3N using a brush. Before sealing the joint there shall be a 'flash-off time' of at least 30 min. (max. 8 hrs.).

For other substrates please contact the Sika Technical Service Department for advice.

Important note: Primers are only adhesion promoters. They neither substitute for the correct cleaning of the surface nor improve their strength significantly.

### Application Conditions / Limitations

**Substrate Temperature** +5°C min. / +40°C max.

**Ambient Temperature** +5°C min. / +40°C max.

**Substrate Moisture Content** Substrates must be dry

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## Application Instructions

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### Application Method / Tools

Sikasil®-Pool is supplied ready to use.

After suitable joint and substrate preparation, insert the Backing Rod to the required depth and apply primer if necessary. Insert cartridge into sealant gun and firmly extrude Sikasil®-Pool into the joint making sure that it is in full contact with the side of the joint. Fill the joint and avoid air entrapment. Tool Sikasil®-Pool firmly against the joint sides to ensure good adhesion.

Use masking tape where sharp and exact joint lines or exceptionally neat edges are required. Remove the tape whilst the sealant is still soft. Finish the surface of the joint with a suitable smoothing liquid for a perfect sealant surface.

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### Cleaning of Tools

Clean all tools and application equipment with Sika® Sealant Remover / Sika® TopClean-T immediately after use. Remove hardened / cured material mechanically.

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### Notes on Application / Limitations

Do not use on bituminous substrates, natural rubber, chloroprene, EPDM or on building materials which might bleed oils, plasticizers or solvents.

Do not use in totally confined space because Sikasil®-Pool requires atmospheric moisture to cure.

Do not use Sikasil®-Pool for structural glazing, insulated glazing, food contact applications, or for medical or pharmaceutical use.

#### Recommendation for use in swimming pools / warm water whirlpools:

Cure Sikasil®-Pool fully before the filling of the pool, minimum 4 days up to 14 days (dependent on the temperature, ambient humidity and the thickness of the sealant applied). The required vulcanisation or curing time extends with the increasing thickness of the sealant applied.

The resistance of a sealant to chlorine is dependent on the pH value of the water and the amount of free chlorine.

Sikasil®-Pool can be used in swimming pools and warm water whirlpools pools in which the pH value of the water is maintained between 6.5 and 7.6 and the free available chlorine is less than 5 mg/litre.

To reduce the risk of fungal attack of Sikasil®-Pool, the free available chlorine level shall not fall below 0.3 mg/litre in swimming pools and 0.7 mg/litre in warm water whirlpools. Continuous water circulation is required to avoid variable chlorine concentrations in which local chlorine concentrations may fall below these minimum levels. (Note that short term exposure to water with free available chlorine of up to 10 mg/litre can be tolerated).

If there is a very strong smell of chlorine, check the p-H value accordingly.

Regular water circulation is required and must not be interrupted. If interrupted, partial or variable chlorine concentrations arise and may locally fall below the minimum concentration.

Do not use acid based detergents as they increase the danger of fungal attack.

In case of a fungal attack of the sealant must be removed completely when joints are reconstructed.

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### Value Base

All technical data stated in this Technical Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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### Health and Safety Information

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

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## Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER



**Sika Australia Pty Limited**  
www.sika.com.au

ABN 12 001 342 329  
Tel: 1300 22 33 48