Construction

Sikasil®-Pool

Neutral curing silicone sealant for swimming pools and permanently wet areas

Product Description	Sikasil®-Pool is a one part neutral curing silicone sealant for use in swimming pools and permanently wet areas.
Uses	Sikasil®-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	n Very high water resistance n High chlorine resistance (as required in swimming pools due to use of disinfecting solutions) n Extremely high resistance to fungal attack n Excellent UV and weathering resistance n High tear resistance n Non-corrosive n High elasticity and flexibility

Product Data

Form

Colours	White (on request), grey 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%	

Sag Flow	< 2 mm	(DIN EN ISO 7 390)
Service Temperature	-40°C to +180°C	

Mechanical / Physical Properties

Tensile Strength	~ 1.5 N/mm^2 (+23°C / 50% r.h.)	(ISO 8339)
Tear Strength	~ 4.0 N/mm^2 (+23°C / 50% r.h.)	(DIN 24 method C))
Shore A Hardness	~ 20 (after 28 days)	(ISO 868)
E-Modulus	~ 0.3 N/mm^2 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 or Sikasil ® Primer-PD 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

Application Instructions

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.
Cleaning of Tools	Clean all tools and application equipment with Sika® Sealant Remover / Sika® TopClean-T immediately after use. Remove hardened / cured material mechanically.
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). For a minimum of fungus attack, disinfect the swimming pool water with chlorine. The pool water shall be in following conditions: Swimming pools: 0.3 - 0.6 mg/litre of free chlorine Warm water whirlpools: 0.7 - 1.0 mg/litre of free chlorine The present state of the art allows an amount of up to 1.2 mg/litre of free chlorine. The pH value of pool water have to be regulated to 7.0. Deviations up and down between 6.5 and 7.6 are allowed in incoming fresh-water. 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. The required vulcanisation or curing time extends with the increasing thickness of the sealant applied. One component silicones must not be used for bonding applications where the silicone is spread all over the surface. Such applications require a different type of sealant formulation – please contact Sika Technical Service Department for advice.
Value Base	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.

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.

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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