

PRODUCT DATA SHEET

Sikasil® RTV

One component, fast curing silicone sealant

DESCRIPTION

Sikasil® RTV is an acetic cure silicone sealant which provides a permanent watertight seal to various substrates including glass and ceramics.

USES

Sikasil® RTV has been formulated for use as a joint sealant in glazing applications, showers, baths, basins, refrigeration seals, outer flues and gaskets and aquariums.

CHARACTERISTICS / ADVANTAGES

- One component
- Forms a watertight seal.
- Remains flexible at low (-40°C) and high (+180°C) temperatures.
- U.V. resistant.
- Fast cure.
- Low shrinkage during cure.
- Available in a range of colours to co-ordinate with bathroomware.

APPROVALS / STANDARDS

ISO 11600:2002 Class F-25LM. Certified
ISO 11600:2002 Class G-25LM. Compliant
NZ Building Code Compliant

- B2 Durability: Clauses B2.3.1 (b) 15 years. (c) 5 years
- E2 External Moisture: Clause E2.3.2
- E3 Internal Moisture: Clauses E3.3.3, E3.3.4, E3.3.5, E3.3.6
- F2 Hazardous Building Materials: Clause F2.3.1

PRODUCT INFORMATION

Chemical Base	Acetoxy
Packaging	300 ml cartridges, 12 cartridges per box.
Colour	White, black, clear
Shelf Life	18 months from date of production if stored according to conditions below.
Storage Conditions	Store in original unopened, sealed and undamaged packaging in dry conditions.
Density	Clear: 0.98 - 1.05 g/cm ³ White & Black: ~1.02 g/cm ³ (ISO 1183-1 A)
Shore A Hardness	20 (ISO 868)
Tensile Strength	0.6 N/mm ² (ISO 8339)

Modulus of Elasticity in Tension	0.35 N/mm ²	(ISO 8339)
Elongation at Break	250%	(ISO 8339)
Tear Strength	4.2 N/mm ²	(ISO 34 Method C)
Movement Capability	25%	(ISO 11600)
Chemical Resistance	Resistant to weak acids and alkalis, soaps and detergent. Not resistant to petrol and aggressive solvents.	
Joint Design	Sikasil® RTV may be applied in joints with a minimum joint size of 5mm wide x 5mm deep and a maximum joint size of 25mm wide x 10mm deep.	
Ambient Air Temperature	Application temperature: +5°C to +40°C	
Skin Time	20 minutes	@ 23°C / 50% r.h.

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.

LIMITATIONS

- Paintability: Sikasil® RTV will not accept paints.
- When used in aquariums, use Sikasil RTV Clear only
- Sikasil® RTV is suitable for joints continuously immersed in fresh or salt water, provided that joint preparation and application are of the highest order, and the sealant is fully cured before immersion. Note - Sikasil® RTV will soften after prolonged immersion periods. Regular inspection is recommended.
- Clean regularly with a suitable household cleaner or bleach to prevent mould growth.
- Do not use Sikasil® RTV on concrete, lime-containing materials, galvanised steel, bituminous surfaces, or polycarbonates.
- Sikasil® RTV is recommended for use only as described in the Uses section of this datasheet.
- For powder coated aluminium, consider using Sikasil® NG or Sikaflex® AT-Facade.
- Sikasil® NG should be considered for bathroom plastics due to its superior adhesion qualities.

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

SUBSTRATE PREPARATION

- Joint surfaces must be clean, dry and free from frost.
- Remove all dirt, laitance, loose material, mould release and curing agents, and foreign matter.
- In all joints a bond breaker tape or Sika PEF rod must be used to prevent sealant contact with the back of the joint, to support the sealant, and hence to allow optimum performance.
- For a neat finish mask the areas adjacent to the joint.
- On most surfaces sealant adhesion will be improved by the use of a primer.
- In applications where adhesion is critical (e.g. high movement joints) a primer should be used.
- For glass, ceramics and mill finished aluminium no priming is required.
- For timber and other porous surfaces use Sika Primer-3 N.
- For plastics and other non-porous surfaces, clean using Sika Activator-205.
- For plastics and other non-porous surfaces that are difficult to bond to gently rub down substrate in single pass with abrasive pad and clean with Sika Activator-205.
- If in doubt consult Sika or conduct a trial adhesion test.

APPLICATION METHOD / TOOLS

- Cut the end off threaded stub on cartridge, screw on nozzle and cut nozzle to desired bead size at a 45° angle.
- Fit cartridge into a Sika skeleton gun.
- Extrude the sealant firmly into joint to ensure complete contact with joint faces.
- Smooth finish if necessary with a spatula wetted with a dilute detergent solution.

CLEANING OF TOOLS

Clean tools immediately after use with Sika Thinner C.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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