BUILDING TRUST

BUILDING PRODUCT INFORMATION 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.

FEATURES

- 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.

PRODUCT INFORMATION

Product identifier	Sikasil® RTV	
Place of manufacture	Aotearoa New Zealand	
Composition	Acetoxy	
Packaging	300 ml cartridges, 12 cartridges per box.	
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.	
Colour	White, black, clear	
Density	Clear: 0.98 - 1.05 g/cm^3 White & Black: ~1.02 g/cm^3	(ISO 1183-1 A)

TECHNICAL INFORMATION

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)
Tensile strain at break	250%	(ISO 8339)
Movement capability	25%	(ISO 11600)
Tear strength	4.2 N/mm^2	(ISO 34 Method C)

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.

APPLICATION INFORMATION

APPLICATION

- 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.

Ambient air temperature	Application temperature: +5°C to +40°C
Skinning time	20 mintues

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	https://nzl.sika.com/
	Email address	info@nz.sika.com
	NZBN	9429000018791

BUILDING CODE INFORMATION

Building Code clauses	B2 Durability: Performance clauses B2.3.1 - (b) not less than 15 Years, (c) not less than 5 years E2 External Moisture: Performance clause E2.3.2 E3 Internal Moisture: Performance Clauses E3.3.3, E3.3.4, E3.3.5, E3.3.6 F2 Hazardous Building Materials: Performance clause F2.3.1
Building Code compliance statements	Performance B2.3.1 (b) 15 years and (c) 5 years: This product achieves these durability requirements and will remain serviceable for 15 years, or more, when installed and maintained in accordance with the relevant Sika technical literature. nzl.sika.com. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2005. Performance E2.3.1, E2.3.2: In accordance with E2/AS1 and E2/AS3 (CCANZ CP 01:2014) this product has been tested and is compliant with the ISO11600:2002 Type F, Class 25LM classification (refer to nzl.sika.com). When used to seal flexible joints, as part of a roofing or wall cladding system, or around external openings, such as windows and doors, the product contributes to meeting the E2.3.1 and E2.3.2 weathertightness requirements. Performance E3.3.3, E3.3.4, E3.3.5, E3.3.6: This product has been tested and is compliant with the ISO11600:2002 Type F, Class 25LM classification. When used to form impervious and easy to clean joints between sheet lining materials and between fixtures and linings, as defined in E3/AS1, it contributes to meeting these impermeability requirements. Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

- Paintability: Sikasil® RTV will not accept paints.
- 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

DESIGN REQUIREMENTS

Sikaflex Elastomeric Sealants - Joint design and movement calculation guide nzl.sika.com

Sika Sealant Selector Guide, Consumption Guide and Best Practice Tips nzl.sika.com

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.

CLEANING OF EQUIPMENT

Clean tools immediately after use with Sika Thinner C.

MAINTENANCE REQUIREMENTS

Joints that have been sealed with this product should be inspected annually (or sooner if required). Gently clean the surface of the joint with a mild solution of water and household detergent, using a soft brush to remove any residual contaminants and rinse clean with fresh water. Any defects within the joint should be identified and removed. The joint should then be cleaned, primed and repaired using the same Sika product to restore the original integrity of the joint. Refer to the Sika product data sheet and the website for further information. nzl.sika.com

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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