Sikasil® RTV

One component, fast curing silicone sealant

Construction

Positioning

Description	Sikasil RTV is an acetic cure silicone sealant which provides a permanent watertight seal to various substrates including glass and ceramics.
Use	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 (use only Sikasil RTV Clear for aquariums as it is free of mould inhibitors).
Advantages	• One component • Forms a watertight seal. • Remains flexible at low (-40℃) and high (150°C) temperatures. • U.V. resistant. • Fast cure. • Low shrinkage during cure. • Available in a range of colours to co-ordinate with bathroomware. • Sikasil RTV colours contain mould inhibitors.

Properties

Colours:	White, Black and Clear
Packaging:	Sikasil® RTV is supplied in 300ml cartridges.
Storage & Shelf Life:	Eighteen (18) months from date of production if stored properly in original unopened, sealed and undamaged packaging in dry conditions.

Technical Data

Application temperature:	5°C to 50°C
Cure system:	Alcoxy
Density:	1.05 g/cm^3
100% modulus:	0.35 - 0.40 MPa
Shore A Hardness:	25
Flammability:	Non flammable
Paintability:	Will not accept paints
Chemical resistance:	• Resistant to weak acids and alkalis, soaps and detergent. • Not resistant to petrol and aggressive solvents.
Water immersion:	• 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.
Movement:	• Butt joints ±10% • Lap joints ±20%

Application Conditions
Instructions for use

Joint size	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.
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 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.

Priming	• 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 3N. • 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's Technical Service Department or conduct a trial adhesion test.
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.
Cleaning	Clean tools immediately after use with Sika Thinner C.

Important Notes

Limitations	• Fungicide is present in Sikasil RTV colours, therefore use only Sikasil RTV Clear for aquariums. • Mould inhibitors will minimise but not totally prevent mould growth. • 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.
Notes	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.

Health & Safety Instructions

Protective Measures	• To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work. • Local regulations as well as health and safety advice on packaging labels must be observed. • If in doubt always follow the directions given on the pack or label.
Important Notes	• Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities. • Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.
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.

Responsible Care

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Sika (NZ) Limited
PO Box 19192, Auckland 1746, NZ.
0800 745 269 | www.sika.co.nz

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