

# Sikasil®-AP

## Multi-purpose silicone sealant

<b>Product Description</b>	Sikasil®-AP is a one part high performance neutral curing multi purpose silicone sealant suitable for indoor and outdoor applications.															
<b>Uses</b>	<p>Sikasil®-AP provides weatherproof joints between various substrates such as glass, metals, painted surfaces, wood, ceramic tiles and concrete, etc.</p> <ul style="list-style-type: none"><li>• Roofing applications</li><li>• General construction and electrical applications</li><li>• Weather seals between aluminium and glass</li><li>• Perimeter seals between aluminium window frames, masonry and brick</li><li>• As an airseal</li><li>• Maintenance and industrial applications</li><li>• As a non-structural adhesive</li></ul>															
<b>Characteristics / Advantages</b>	<ul style="list-style-type: none"><li>• Provides primerless adhesion to a wide range of substrates</li><li>• Very good UV and weathering resistance</li><li>• Permanently flexible</li><li>• High performance</li><li>• Low odour</li><li>• Non corrosive</li></ul>															
<b>Product Data</b>																
<b>Colour</b>	Transparent															
<b>Packaging</b>	300 ml cartridges, 12 cartridges per box															
<b>Storage &amp; Shelf Life</b>	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.															
<b>Technical Data</b>																
<b>Chemical Base</b>	neutral curing.															
<b>Density</b>	~ 1.02kg/l	(ISO 1183-1)														
<b>Skinning Time</b>	~ 10 minutes (+23°C / 50% r.h.)															
<b>Curing Rate</b>	~ 2 mm/24h (+23°C / 50% r.h.)															
<b>Movement Capability</b>	± 20%															
<b>Sag Flow</b>	< 2 mm	(ISO7390)														
<b>Service Temperature</b>	-40°C to +120°C															
<b>Tensile Strength</b>	~ 1.2 N/mm <sup>2</sup> (+23°C / 50% r.h.)	(ISO 8339)														
<b>Tear Strength</b>	~ 1.0 N/mm <sup>2</sup> (+23°C / 50% r.h.)	(ISO 34 method C)														
<b>Shore A Hardness</b>	~ 19 (after 28 days)	(ISO 868)														
<b>E-Modulus</b>	~ 0.4 N/mm <sup>2</sup> at 100% elongation (+23°C / 50% r.h.)	(ISO 8339)														
<b>Elastic Recovery</b>	> 80% (+23°C / 50% r.h.)	(ISO 7389)														
<b>Consumption</b>	<p><i>Joint Design:</i></p> <p>The joint width must be designed to be within the movement capability of the sealant. In general the joint width must be &gt; 6 mm and &lt; 12 mm. The width to depth ratio of ~ 2 : 1 must be respected.</p> <table><tr><td>Joint width</td><td>6 mm</td><td>9 mm</td><td>12 mm</td></tr><tr><td>Joint depth</td><td>4 mm</td><td>5 mm</td><td>6 mm</td></tr><tr><td>Joint length / 300 ml</td><td>~ 12.5 m</td><td>~ 6.5 m</td><td>~ 4 m</td></tr></table>				Joint width	6 mm	9 mm	12 mm	Joint depth	4 mm	5 mm	6 mm	Joint length / 300 ml	~ 12.5 m	~ 6.5 m	~ 4 m
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<b>Substrate Quality, Preparation &amp; Priming</b>	Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Cement laitance must be removed. Primer is not normally required on metal, steel and non-porous surfaces. If in doubt, refer to the Sika Primers technical data sheet for further information, or contact the Sika Technical Department.															



## Application Conditions / Limitations

<b>Substrate Temperature</b>	+5°C min. / +40°C max.
<b>Ambient Temperature</b>	+5°C min. / +40°C max.
<b>Substrate Moisture Content</b>	Substrate must be dry

## Application Conditions

### Method of application

- For best results apply masking tape to both sides of the joint before sealing and remove masking tape before silicone skins.
- Cut end off threaded stub on cartridge, screw on nozzle and cut nozzle at desired bead size at a 45° angle.
- Fit cartridge into a Sika sealant gun.
- Sealant should be firmly extruded into the joint, making sure it is in full contact with the sides of the joint. Tool off sealant before skin forms (within 10 minutes) to achieve a smooth finish. Tooling will compress the sealant, promoting adhesion to joint walls. The sealant surface skins in approximately 10 minutes and is touch dry in approximately 30 minutes.
- Remove any excess uncured sealant immediately with a cloth dampened with Sika Colma Cleaner or mineral turpentine. Masking tape is then removed immediately.
- Cured sealant can be removed by trimming with a sharp blade, but avoid under-cutting seal.

### 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.

### 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.

## 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.

### 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.
- Sikasil-AP is not recommended for use in joints with excessive movement, below the waterline, in high trafficable areas, for structural glazing or in aquariums.
- Not recommended for direct contact with bituminous surfaces or granite and marble.
- Stress cracking may occur when used on polycarbonates, due to surface tension.
- Pre-test on plastics to determine compatibility.
- Complete painting before applying sealant. Sealant cannot be successfully painted over.
- The suitability of this product for an intended use shall be the sole responsibility of the user.
- 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.



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