

# Sikasil® Industrial

## Premium silicone adhesive sealant

### Technical Product Data

Chemical base	1-C silicone
Colour (CQP <sup>1</sup> 001-1)	Translucent, black, grey, white
Cure mechanism	Moisture-curing
Cure type	Neutral
Density (uncured) (CQP 006-4)	1.0 kg/l approx.
Application temperature	5 - 40°C
Skin time <sup>2</sup> (CQP 019-1)	10 min. approx.
Curing speed <sup>2</sup> (CQP 049-1)	3 mm approx. in the first 24 hours
Shore A hardness (CQP 023-1 / ISO 868)	20 approx.
Tensile strength (CQP 036-1 / ISO 37)	1.0 N/mm <sup>2</sup> approx.
Elongation at break (CQP 036-1 / ISO 37)	600% approx.
Movement accommodation capability (ASTM C 719)	± 35%
Service temperature	-40°C to +150°C approx.
Shelf life (storage below 25°C) (CQP 016-1)	12 months

<sup>1)</sup> CQP = Corporate Quality Procedure

<sup>2)</sup> 23°C / 50% r.h.

### Description

Sikasil® Industrial is a premium, neutral-curing silicone adhesive sealant which displays excellent adhesion to a wide range of substrates and provides a permanent, flexible bond or seal. Sikasil® Industrial is manufactured in accordance with the ISO 9001 / 14001 quality assurance system.

### Product Benefits

- Fast-curing
- Non-corrosive
- Low odour
- Good application properties
- Excellent thermal, vibration, UV and weathering resistance
- Superior adhesion to metals, glass, ceramic tiles, concrete, timber, most plastics and painted surfaces
- Sanitary grade (long-term mould resistance)
- Potable water approved (meets AS4020 requirements)

### Areas of Application

Sikasil® Industrial is a multipurpose product designed for interior and exterior use in a broad range of industrial and related bonding and sealing applications such as:

- General glazing and weather sealing
- Sealing joints in wet areas (kitchen, bathroom)
- Sealing roof, gutter, skylight, cladding and water tank joints
- Electrical and maintenance work
- Bonding light components and sealing joints in shipping containers, caravans and other vehicle bodies

This product is suitable for professional experienced users only. Tests with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

Industry



### Cure Mechanism

Sikasil® Industrial cures by reaction with atmospheric moisture. The reaction thus starts at the surface and proceeds to the core of the joint. The curing speed depends on the relative humidity and the temperature. At low temperatures the water content of the air is lower and the curing reaction proceeds more slowly.

### Application Limits

Sikasil® Industrial is not recommended for use in:

- structural glazing
- below waterline applications (except as a mechanically compressed gasket seal)
- sealing joints subject to heavy traffic
- pre-stressed polycarbonate or other plastic surfaces that are prone to stress cracking
- direct contact with bituminous substrates or other materials that may bleed oils, plasticisers or solvents (e.g. some rubbers)
- granite, marble and other natural stone joints which are prone to staining

Joints deeper than 15 mm should be avoided.

The compatibility of gaskets, backer rods and other accessory materials with Sikasil® Industrial must be tested in advance.

The above information is offered for general guidance only. Advice on specific applications will be given on request.

### Method of Application

#### Surface preparation

Surfaces must be clean, dry and free from oil, grease and dust. Advice on specific applications is available from the Technical Service Department of Sika Industry.

#### Application

To minimise smearing of surfaces with excess sealant, masking tape can first be applied to surrounding surfaces.

Cut the nozzle to the desired bead size then apply a continuous bead as required. For bonding, apply bead to only one surface. For sealing, push the sealant into the

joint as it is being applied to ensure good wet out onto the surface.

Assemble parts and/or tool off any excess sealant before it skins over then immediately remove any masking tape.

For more information, please contact the Technical Service Department of Sika Industry.

#### Removal

Uncured, excess Sikasil® Industrial may be removed with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed immediately using Sika® Handclean towels or a suitable industrial hand cleaner and water. Do not use solvents!

#### Overpainting

Sikasil® Industrial cannot be overpainted. If a similar but overpaintable product is required, consider using Sikaflex®-221 adhesive sealant.

### Further Information

Copies of the following publications are available on request:

- Safety Data Sheet

### Packaging Information

Cartridge	300 ml
Unipack	600 ml

### Value Bases

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 and Safety Information

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets 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.

