



PRODUCT DATA SHEET

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TILING

Sikaflex® Crystal Clear

MULTIPURPOSE, SOLVENT-FREE, ONE-PART SILANE-BASED ADHESIVE

Description	Sikaflex® Crystal Clear is a single component, silane-based, solvent-free, multipurpose adhesive with a crystal clear appearance.
Where to Use	Sikaflex® Crystal Clear is a multipurpose adhesive designed for the assembly and installation of various decorative and design elements or accessories. Formulated for interior applications, it adheres to most surfaces including metal, plastic, glass, tile, concrete, drywall, plywood, enamel and painted surfaces. It also allows to seal the perimeters of the bonding areas with the same material.
Advantages	<ul style="list-style-type: none"> ▪ 100 % crystal clear / transparent. ▪ Excellent workability. ▪ Paintable after full cure. ▪ Ideal for DIY and architectural applications. ▪ May be applied to damp surfaces. ▪ Excellent adhesion on many typical building materials.

Technical Data

Packaging	300 g cartridge (290 mL), 12 cartridges per box
Colour	Transparent
Yield	Approximately 3.7 lin. m (12 lin. ft) per 290 mL cartridge for a 12 mm (1/2 in) x 6 mm (1/4 in) joint.
Shelf Life	12 months from the date of production, if it is stored properly in undamaged, original, sealed packaging, and if the storage conditions are met. Store in dry conditions, protected from direct sunlight and at temperatures between 5 and 25 °C (41 and 77 °F)

Properties at 23 °C (73 °F) and 50 % R.H.

Density	~1.05 kg/L
Tensile Strength	2.0 MPa
Secant Tensile Modulus	~0.3 MPa at 60 % elongation
Elongation at Break	~400 %
Elastic Recovery	~70 %
Tear Propagation Resistance	~4.0 MPa approx.
Service Temperature	-40 to 70 °C (-40 to 158 °F)
Ambient Air Temperature	5 to 40 °C (41 to 104 °F) - Min. 3 °C (37 °F) above dew point temperature
Relative Air Humidity	30 % to 90 %
Substrate Temperature	5 to 40 °C (41 to 104 °F)
Curing Rate	~3 mm/24 hours
Skin Time	~30 minutes
VOC Content	< 30 g/L
Chemical Resistance	Contact Sika Canada

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

HOW TO USE

Surface Preparation	The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Sikaflex® Crystal Clear adheres without primers and/or activators.
Application	Sikaflex® Crystal Clear is supplied ready to use.

Bonding

After the necessary substrate preparation, insert a cartridge into a standard caulking gun and extrude Sikaflex® Crystal Clear in beads, strips or spots to the bonding surface in intervals of a few centimetres. Use hand pressure only to set the element to be bonded into position. An incorrectly positioned element can easily be unfastened and repositioned during the first few minutes after application. Apply pressure again. Optimum bonding will be obtained after the complete curing of Sikaflex® Crystal Clear. The recommended adhesive layer thickness (depending on surface evenness) is ≤ 3 mm (1/8 in). Fresh, uncured adhesive remaining on the surface must be removed immediately. Final strength will be obtained after complete curing of Sikaflex® Crystal Clear.

Sealing

Although Sikaflex® Crystal Clear is formulated as an adhesive, it may also be used for interior applications as a sealant for connection joints where little movement is expected.

After the necessary substrate preparation, insert a cartridge into a standard caulking gun and extrude Sikaflex® Crystal Clear into the joint making sure that it comes into full contact with the sides of the joint and avoids any air entrapment. Sikaflex® Crystal Clear sealant must be firmly tooled against the joint sides to ensure adequate adhesion. For wider joints, a backer rod may be required. It is recommended to use masking tape where exact joint lines or neat lines are required. Remove the tape within the skin time. Do not use tooling products containing solvents.

Note: When used as a interior sealing material (or in an environment exposed to continuous and strong UV light), Sikaflex® Crystal Clear will discolour and yellow.

Clean Up

Uncured material can be removed from equipment and tools using Sika® Urethane Thinner and Cleaner. Cured material can only be removed manually or mechanically. For removal of uncured material from hands and sensitive surfaces, use Sika® Hand Cleaner. Uncured material may also be removed using mineral spirits or hand cleaner

Limitations

- Before bonding, check adhesion and resistance of paints and coatings by carrying out trials.
- Colour variations may occur due to exposure to chemicals, high temperatures and/or UV-radiation. However, a change in colour is purely of aesthetic nature and does not adversely influence the technical performance or durability of the product.
- Not recommended in areas such as bathtubs and showers and where the product might be exposed to cleaning chemicals such as detergents, soaps, etc.
- Before using Sikaflex® Crystal Clear on natural stone, contact Sika Canada for advice.
- Do not use Sikaflex® Crystal Clear on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might bleed oils, plasticizers or solvents that could attack the sealant.
- Do not use for joints where movement is expected.
- Do not use Sikaflex® Crystal Clear to seal joints in and around swimming pools.
- Do not use Sikaflex® Crystal Clear for joints under water pressure or for permanent water immersion.
- When painting Sikaflex® Crystal Clear, it is advisable to first conduct compatibility tests.
- Do not use outside on substrates sensitive to corrosion such as blank steel or iron.
- Do not use for glass bonding if the bond line or the adhesive and/or substrate interface are directly exposed to sunlight.
- Do not expose uncured Sikaflex® Crystal Clear to alcohol containing products as this may interfere with the curing reaction.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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