



## PRODUCT DATA SHEET

# Sika MaxTack<sup>®</sup> Ultra Clear

## COMPLETELY TRANSPARENT MULTIPURPOSE SEALANT AND ADHESIVE

## PRODUCT DESCRIPTION

Sika MaxTack Ultra Clear is a 1-component, solvent-free, multipurpose sealant and adhesive with a crystal clear appearance.

## USES

Sika MaxTack Ultra Clear is designed as a multipurpose adhesive and is suitable for most surfaces including metal, glass, concrete, plaster, plasterboard, wood surfaces, painted enamel, polyester and plastics.

Sika MaxTack Ultra Clear is designed as a sealant for vertical and horizontal indoor connection joints between partition walls, for metal and wood constructions.

## CHARACTERISTICS / ADVANTAGES

- 100 % crystal clear / transparent
- Good workability
- Low shrinkage during cure
- Especially for home improvement sector
- Can be used on damp concrete Very good adhesion on many typical building materials

## APPROVALS / STANDARDS

- EN 15651-1 F EXT-INT CC
- ISO 11600 F 20 LM

## PRODUCT INFORMATION

<b>Chemical Base</b>	Silane-modified polymer
<b>Colour</b>	Transparent
<b>Shelf Life</b>	Sika MaxTack Ultra Clear has a shelf life of 12 months from the date of production, if it is stored properly in undamaged, original, sealed packaging, and if the storage conditions are met
<b>Storage Conditions</b>	Sika MaxTack Ultra Clear shall be stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +25 °C.
<b>Density</b>	1.05 kg/l approx. (ISO 1183-1)

## TECHNICAL INFORMATION

<b>Shore A Hardness</b>	30 approx. (after 28 days) (ISO 868)
<b>Tensile Strength</b>	2.0 N/mm <sup>2</sup> approx. (ISO 37)
<b>Secant Tensile Modulus</b>	0.30 N/mm <sup>2</sup> approx. at 60 % elongation (23 °C) (ISO 8339)
<b>Elongation at Break</b>	400 % approx. (ISO 37)
<b>Elastic Recovery</b>	70 % approx. (ISO 7389)
<b>Service Temperature</b>	-40 °C to +70 °C
<b>Joint Design</b>	The joint width must be designed to suit the joint movement required and the movement capability of the sealant. The joint width shall be $\geq 6$ mm and $\leq 20$ mm. A width to depth ratio of 2:1 must be maintained. Joints $\leq 10$ mm width are for crack control and therefore non-movement joints. What is relevant, is the joint width at the time of application of the sealant (guide value of +10 °C). For larger joints please contact our Technical Service Department.

## APPLICATION INFORMATION

### Consumption

In spots:

1 cartridge for 100 x 3 cm spots (Diameter = 3 cm; thickness = 0.4 cm)

In strips:

Using a nozzle with 5 mm diameter, bead yields approx. 20 ml per linear meter

### Backing Material

Use closed cell, polyethylene foam backing rods.

### Ambient Air Temperature

+5 °C to +40 °C, min. 3 °C above dew point temperature

### Relative Air Humidity

30 % to 90 %

### Substrate Temperature

+5 °C to +40 °C

### Curing Rate

3 mm/24 hours approx. (23 °C / 50 % r.h.) (CQP 049-2)

### Skin Time

30 minutes approx. (23 °C / 50 % r.h.) (CQP 019-1)

### Non-porous substrates

Aluminium, anodised aluminium, stainless steel, PVC, galvanised steel, powder coated metals or glazed tiles have to be cleaned and pre-treated using Sika®Aktivator- 205, wiped on with a clean towel. Before sealing, allow a flash-off time of >15 minutes (<6 hours). Other metals, such as copper, brass and titanium-zinc, also have to be cleaned and pre-treated using Sika®Aktivator-205, wiped on with a clean towel. After the necessary flash-off time, use a brush to apply Sika®Primer-3 N and allow a further flash-off time of >30 minutes (<8 hours) before sealing the joints.

### Porous substrates

Concrete, aerated concrete and cement based renders, mortars and bricks shall be primed using Sika®Primer-3 N applied with a brush. Before sealing, allow a flash-off time of >30 minutes (< 8 hours).

For more detailed advice and instructions please contact the local Sika Technical Services Department.

Note: Primers are adhesion promoters. They are neither a substitute for the correct cleaning of a surface, nor do they improve the strength of the surface significantly.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Sika MaxTack Ultra Clear adheres without primers and/or activators.

However, for optimum adhesion and critical, high performance applications, such as on multi-story buildings, highly stressed joints, extreme weather exposure or water immersion, the following priming and/or pretreatment procedures shall be followed:

### APPLICATION METHOD / TOOLS

Sika MaxTack Ultra Clear is supplied ready to use.

### Sealing:

After the necessary substrate preparation, insert a suitable backing rod to the required depth and apply any primer if necessary. Insert a cartridge into the sealant gun and extrude Sika MaxTack Ultra Clear into the joint making sure that it comes

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into full contact with the sides of the joint and avoids any air entrapment.

Sika MaxTack Ultra Clear sealant must be firmly tooled against the joint sides to ensure adequate adhesion.

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.

### Bonding:

After substrate preparation, apply Sikaflex® Crystal Clear in beads, strips or spots to the bonding surface in intervals of a few centimetres each. Use hand pressure only to set the element to be bonded into position. If necessary, use SikaTack Panel Tape during the initial hours of curing. 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. Fresh, uncured adhesive remaining on the surface must be removed immediately. Final strength will be obtained after complete curing of Sikaflex® Crystal Clear.

### CLEANING OF TOOLS

Clean all tools and application equipment immediately after use with Sika® Remover-208 and/or Sika® Top-Clean T. Once cured, residual material can only be removed mechanically.

## FURTHER DOCUMENTS

- Safety Data Sheet

## LIMITATIONS

- Before bonding, check adhesion and resistance of
- paints and coatings by carrying out a trail.
- 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

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- technical performance or durability of the product.
- Before using on natural stone contact our Technical Service.
- Before using Sika MaxTack Ultra Clear on natural stone, please refer to Sika Technical Services for advice.
- Do not use Sika MaxTack Ultra 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 Sika MaxTack Ultra Clear to seal joints in and around swimming pools.
- Do not use Sika MaxTack Ultra Clear for joints under
- water pressure or for permanent water immersion.
- Do not use outside on easily corroding substrates
- 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.
- For further information please contact your local Sika Technical Service Department.
- Do not expose uncured Sika MaxTack Ultra Clear to
- alcohol containing products as this may interfere
- with the curing reaction.

## VALUE BASE

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## **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.

## **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.