

PRODUCT DATA SHEET

Sika® Stixall® Ultra Crystal Clear

Extremely flexible sealant and adhesive with multiple certifications for interior and exterior use

PRODUCT DESCRIPTION

Sika® Stixall® Ultra Crystal Clear is the ultra flexible, high grab adhesive and sealant which can be used in food preparation areas. It is exceptionally strong, sticks to almost anything and even works under-water.

Certified for use in sanitary areas, and indoor and outdoor use, whilst also meeting the toughest emissions classification EC1^{PLUS}. Once cured, it's resistant to mould, temperature extremes, chemicals, petrol, UV radiation.

USES

Excellent primerless adhesion to most surfaces, including metals, most plastics, glass, concrete, plaster, plasterboard, polyester, perspex, glass, wood, enamel, painted surfaces etc.

For bonding in various interior and exterior applications:

- As a high quality nail replacement adhesive, even to damp surfaces.
- External and internal perimeter pointing around doors and windows.
- Bonding mirrors to most common substrates.
- Sealing vertical expansion joints.
- Jointing cladding panels.
- Bonding difficult materials such as plastic and metals.
- Any application requiring high performance, durable bonding of joints.
- Applications where resistance to chemical spillage is required.

CHARACTERISTICS / ADVANTAGES

- High slip resistance.
- Gap filling.
- High ultimate bonding strength.
- Interior and exterior use.
- Resistant to temperature extremes -40 °C to +70 °C.
- Can be applied to damp/wet surfaces.
- Totally waterproof & weatherproof.
- Quick curing.
- Overpaintable with some paints (always test a small area first).
- Permanently flexible.
- Resistant to chemicals & petrol (10 % dilute acids/alkalis, most solvents).
- Certified to the harmonized European standard for sealants for façade and sanitary use.

APPROVALS / STANDARDS

- UKCA and CE marked.
- Façade: EN15651-1: 2012, Type F EXT-INT Class F20LM CC.
- Sanitary: EN15651-3:2012, Type S Class XS2.
- EMICODE EC1^{PLUS}.
- Leed v4 Compliant for building design and construction (April 2015).
- BREEAM International Pass BREEAM NOR New Construction 2016.
- Approved for use in food preparation areas.

PRODUCT INFORMATION

Chemical Base	STP
Packaging	300 mL cartridge
Colour	Crystal Clear
Shelf Life	12 months from date of manufacture when stored according to manufacturer's instructions.
Storage Conditions	Store in cool, dry conditions between +5 °C to +25 °C.
Density	Approx. 1.01 g/cm ³
Shore A Hardness	30 ±5
Movement Capability	20 % (ISO 9047)
Service Temperature	-40 °C to +70 °C
Joint Design	Max Joint Width: 25 mm Min Joint Width (in sealing applications as a movement joint): 5 mm
Elongation at break	> 150 % (ISO 8339)

APPLICATION INFORMATION

Consumption	Approx. 10.5 linear metres at 6 mm bead
Ambient Air Temperature	+5 °C to +40 °C
Curing Rate	2.0 mm in depth per 24 hours
Skin Time / Laying Time	Approx. 10 minutes

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.

LIMITATIONS

- Always use in conjunction with mechanical fixings for overhead applications.
- Use in conjunction with mechanical fixings for large mirrors (>0.5 m² total area).
- For heavy items, provide temporary support until adhesive has dried.
- In areas of high UV; some darkening/discolouration may occur. Prolonged exposure to UV-radiation will affect the technical performance and durability of the product.
- Do not seal mirror edges/plastic sheeting until adhesive has cured.
- Do not use on surfaces that bleed oils or plasticizers.
- Overpaintability: As quality and type of paint can vary, always test compatibility before use.
- Not for use as part of a structural glazing system.
- Not for use in aquarium manufacture. Use EVERBUILD® AQUA MATE®.
- Not for use in conjunction with bitumen, or asphalt. Use EVERBUILD® WEATHER MATE®.
- Do not use in conjunction with undiluted bleach, this can cause discoloration of product.
- Do not use on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might leach oils, plasticisers or solvents that could degrade the adhesive.
- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon) and certain plasticised synthetic materials. Preliminary trials must be carried out or contact Technical Services.
- Do not use to seal joints in and around swimming pools.
- Do not use for joints under water pressure or for permanent water immersion.
- Do not use to seal glass or in floor joints.
- Do not use for bonding glass if the bond line is exposed to sunlight.
- Yellowing can occur in dark conditions. This does not affect the performance of the sealant. It is the user's responsibility to determine suitability of use. If in doubt, please contact Technical Services department for advice.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All surfaces must be clean and dust free.

APPLICATION METHOD / TOOLS

As a nail replacement (panel) adhesive:

- Prime dusty surfaces with SikaBond® PVA+ diluted 1:4 with water and allow to dry.
- Apply using a standard sealant gun, cut tip of cartridge, apply nozzle and cut an opening to suit the required bead size.
- For bonding heavy items (plasterboard, worktops, wall panels etc.) apply adhesive all the way around the edge of the item (30-50 mm from edge) and cover back with beads of adhesive at 30-40 mm intervals.
- Alternatively, apply adhesive direct to battens and press into place.
- With heavy items, always provide temporary support until the adhesive dries.
- For bonding lightweight items (covings, dado rails, skirting etc.) apply adhesive to back of item in one or two continuous beads and press immediately into place.
- Where gap filling is required, mark the areas where there is a large gap and apply a thicker bead to these areas.
- In all cases, clean up excess adhesive immediately with a cloth/white spirit.

As a sealant:

- Certified to EN15651 Façade for interior, exterior and cold climate and for sanitary applications.
- Reference should be made to the recommended joint ratios. If necessary, reduce joint depth using a Sika® Expanding Foam, or Joint Backer Rod.

- Furthermore, ensure that the joint design only permits adhesion to two surfaces, as three-sided adhesion will impair flexibility.
- Where the sealant is used in a joint configuration, masking tape should be used to prevent contamination of adjacent substrates, and to ensure a neat sealing line.
- Masking tape should be removed immediately after tooling.
- The joint should be tooled within 5 minutes of application to ensure good contact between the sealant and the substrate.
- Tooling of the sealant also gives a smooth, professional finish.

Fixing mirrors:

- Apply 6 mm diameter beads of sealant direct to back of mirror in vertical strips, spaced at 30-40 mm centres.
- Immediately place mirror in position and secure with good, even pressure with a slight twist action.
- Provide temporary support (tape) until adhesive has dried (24 - 48 hours).
- If required, Sika® Stixall® Ultra Crystal Clear may also be used to seal around mirror 24 hours after fixing (to allow for cure).
- Uncured material can be removed by wiping with a dampened cloth with white spirit.
- Cured material can be carefully removed by mechanical means. Full cure must be allowed before overpainting.

CLEANING OF TOOLS

Uncured product: Sika® Wonder Wipes or white spirit.

Cured product: mechanical removal.

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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