BUILDING TRUST

PRODUCT DATA SHEET

Sika® Stixall® Crystal Clear

BUILDING ADHESIVE AND SEALANT. POWER TO BOTH BOND AND SEAL VIRTUALLY EVERYTHING TO ANYTHING IN VIRTUALLY ALL CONDITIONS

PRODUCT DESCRIPTION

STIXALL® is a one part, chemically curing sealant and adhesive combining the best qualities of silicone and polyurethane technologies. It is specifically designed for adhering most common building surfaces to each other and themselves.

USES

Sealing and bonding in almost every application imaginable. The following are just some examples:

- As a high quality nail replacement adhesive, even to damp surfaces.
- Internal perimeter pointing around doors and windows, especially in mobile structures such as caravans.
- Bonding mirrors to most common substrates.
- Bonding and jointing cladding panels.
- Any application requiring high performance, durable sealing and bonding of joints.
- Applications where resistance to chemical spillage is required

CHARACTERISTICS / ADVANTAGES

- Incredible initial grab, no slip & gap filling properties.
- High bonding strength.
- Interior and exterior use.
- Can be applied to wet surfaces.
- Totally waterproof & weatherproof and quick curing.
- Overpaintable if required (with water based paints - test an inconspicuous area before use).
- Resistant to temperature extremes -40 °C to +70 °C.
- Resistant to chemicals (10 % dilute acids/alkalis, most solvents).
- Excellent primerless adhesion to most surfaces, including metals, most plastics, glass, concrete, plaster, plasterboard, polyester, perspex, glass, wood, enamel, painted surfaces etc.

PRODUCT INFORMATION

Chemical Base	STP
Packaging	290 ml Plastic Cartridge 80 ml Squeezy Tube
Colour	Crystal Clear
Shelf Life	290 ml Plastic Cartridge = 12 months 80 ml Squeezy Tube = 24 months
Storage Conditions	Store in cool dry conditions between + 5 °C and 25 °C.
Density	1.0 - 1.1 g/cm³
Product Declaration	F-INT EN15651-1:2012 (CE and UKCA)
Shore A Hardness	25 ± 5

Shrinkage	<10 % (ISO 10563)
Lap Shear Strength	1 week cure time at +23 °C and 50 % RH Substrates Strength (N/mm²) Aluminium:Aluminium 0.73 Beech:Beech 1.46 PVC:PVC 0.69
Service Temperature	-40 °C to +70 °C
Elongation at break	ca. 550 % (ISO 37)
Consumption	ca. 10 linear metres based on 6 mm bead Cartridge ca. 3 linear metres based on 6 mm bead Squeezy Tube
Sag Flow	<3 mm (ISO 7390)
Ambient Air Temperature	+5 °C to +40 °C
Curing Rate	ca. 1.8 mm / 24 hours at +23 °C and 50 % RH
Skin Time / Laying Time	15 - 30 minutes

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

- Use on overhead applications – Always use in conjunction with mechanical fixings.
- Use in conjunction with mechanical fixings for glass block fitting or 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 effect the technical performance and durability of the product.
- Do not seal mirror edges/plastic sheeting until adhesive has cured.
- Overpaintability: check compatibility with specific paint first before over painting large areas.
- Do not use on surfaces that bleed oils or plasticizers.
- It is the user's responsibility to determine suitability for use. If in doubt, please contact Technical Services Department for advice.
- 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.
- Only certified as a sealant for internal use.
- Do not use in conjunction with undiluted bleach, this can cause can 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 for padestrian walk way floor, sanitary or glazing sealing.
- Do not use for bonding glass if the bond line is exposed to sunlight.

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.

SUBSTRATE PREPARATION

All surfaces must be clean, oil, grease and dust free.

APPLICATION

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 suite 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 300 mm intervals. Alternatively, apply adhesive direct to battens and press into place.
NOTE.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 spirits.

As a sealant:
Certified to EN15651 Façade for interior applications. Reference should be made to the recommended joint ratios. If necessary reduce joint depth using 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 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 centers. 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, Stixall® 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 spirits.
Cured product: mechanical removal.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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