

PRODUCT DATA SHEET

Sika® Stixall®

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, moisture 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.
- Perimeter pointing around doors and windows, especially in mobile structures such as caravans.
- Bonding mirrors to most common substrates.
- 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.
- For interior (adhesive/sealant) and exterior (adhesive) use.
- Can be applied to wet surfaces.
- Waterproof & weatherproof.
- Quick curing.
- Overpaintable if required (with water based paints - test an inconspicuous area before use).
- Resistant to temperature extremes -40 °C to +100 °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, acrylic, glass, wood, enamel, painted surfaces etc.

PRODUCT INFORMATION

Chemical Base	STP
Packaging	290 ml Plastic Cartridge 80 ml Squeezy Tube
Colour	290 ml Plastic Cartridge available in: Black, Brown, Grey, Anthracite and White. 80 ml Squeezy Tube available in: White.
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	ca. 1.5 g/cm ³
Product Declaration	EN15651-1:2012 F-INT

Consistency	Paste								
Shore A Hardness	55 - 60								
Tensile Strength	> 1.5 MPa								
Shrinkage	<10 % (ISO 10563)								
Lap Shear Strength	<table> <tr> <th>Substrates</th><th>Strength 7 days (N/mm²)</th></tr> <tr> <td>Aluminium:Aluminium</td><td>1.0 - 1.5</td></tr> <tr> <td>PVC:PVC</td><td>0.7 - 1.0</td></tr> <tr> <td>Beech wood: Beech wood</td><td>1.5 - 2.0</td></tr> </table>	Substrates	Strength 7 days (N/mm ²)	Aluminium:Aluminium	1.0 - 1.5	PVC:PVC	0.7 - 1.0	Beech wood: Beech wood	1.5 - 2.0
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Beech wood: Beech wood	1.5 - 2.0								
Thermal Resistance	-40 to +100 °C (when fully cured)								

APPLICATION INFORMATION

Consumption	ca. 10 linear metres as a 6 mm bead (cartridge) ca. 3 linear metres as a 6 mm bead (squeeze pack)
Sag Flow	<5 mm (ISO7390)
Sagging	Nil
Ambient Air Temperature	+5 to 35 °C
Curing Rate	~1 mm/ 24 hours (+23 °C and 50 % RH)
Skin Time	30 ± 10 minutes (+23 °C and 50 % RH)

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.

USES

- Not suitable for permanent immersion in water.
- 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 cured.
- Do not seal mirror edges/plastic sheeting until adhesive has cured.
- In areas of high UV; some darkening/discolouration may occur. This does not affect the performance of the product.
- Overpaintability: check compatibility with specific paint first before over painting large areas.
- Do not use on surfaces that bleed oils or plasticizers.
- Not for use as part of a glazing system.
- Not for use in aquarium manufacture. Use AQUA MATE®.
- Not for use in conjunction with bitumen, or asphalt. Use WEATHER MATE®.
- Yellowing can occur in predominantly dark conditions.
- Certified as a sealant for internal use only.
- Staining from plasticiser migration may occur when used on cast, reconstituted or natural stone such as granite, marble or limestone substrates. Customers should test a sample prior to application.
- It is the user's responsibility to determine

suitability for 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.

SUBSTRATE PREPARATION

All surfaces must be clean and dust free. Surfaces may be damp, but have no standing water. Can be used under water for emergency repair.

APPLICATION METHOD / TOOLS

Cartridge:

Cut the tip of the cartridge taking care not to damage the thread. Fix nozzle, cut aperture to required width and apply with a standard sealant gun.

Squeeze Pack:

Remove plastic cap. Cut nozzle with a sharp knife to required aperture. Squeeze tube from base with light finger pressure and apply as necessary. Remove any excess material from nozzle prior to replacing cap.

As a Nail Replacement (Panel) Adhesive:

Prime dusty surfaces with Sika® 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 adhes-

ive 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:

If necessary reduce joint depth using an 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 adhesive 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 the mirror 24 hours after fixing (to allow for cure).

CLEANING OF TOOLS

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 over painting.

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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Product Data Sheet

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