

290ML SHTUK EXTREME POLYMER ADHESIVE



Shtuk Polymer Adhesive is a one part, chemically curing solvent free 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

Available in White, Clear and Black.

Benefits

- Incredible initial grab, no slip and gap filling properties.
- High bonding strength
- Interior and Exterior Use
- Can be applied to Wet Surfaces
- Totally Waterproof & Weatherproof
- Quick Curing.
- Overpaintable if required
- Powerful biocide prevents mould growth
- Solvent Free
- Resistant to temperature extremes -40°C to +150°C
- Resistant to Chemicals & Petrol (10% dilute acids/alkalis, most solvents)
- Excellent primer less adhesion to most surfaces, including metals, most plastics, glass, concrete, plaster, plasterboard, polyester, Perspex, glass, wood, enamel, painted surfaces etc etc.

Areas For Use

- 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.
- External and internal perimeter pointing around doors and windows, especially in mobile structures such as caravans and boats.
- Bonding mirrors to most common substrates.
- Automotive gap filling and sealing
- Sealing vertical expansion joints.
- Jointing cladding panels.
- Bonding difficult materials such as specialised polymer systems, metals and fibreglass
- Any application requiring high performance, durable sealing and bonding of joints.
- Applications where resistance to chemical spillage is required (garage forecourts etc)

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 (>0.5m² total area)
- For heavy items, provide temporary support until adhesive has dried.



- 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 sealant
- 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.
- Not for use in conjunction with bitumen, or asphalt.

Surface Preparation

All surfaces must be clean and dust free. Surfaces may be damp, but have no standing water.

Application

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.

Squeezy 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.

- Surfaces must be sound, clean, dry and free from dust, grease, loose material etc.
- Prime dusty surfaces with PVA Bond 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 (30-50mm from edge) and cover back with beads of adhesive at 300mm 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

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 6mm diameter beads of sealant direct to back of mirror in vertical strips, spaced at 30-40mm 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, STIX-ALL 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 over painting.

Specific Data

Consistency	Pasty
Density	1.50 ± 0.05
Application Temperature	5 to 35°C
Skin Formation at 23°C and 50% RH	30 ± 10 min
Sagging (ISO 7390)	Nil
Curing at 23°C and 50% RH	> 3mm / 24hr
Shore A Hardness (ISO 868 – 3 seconds)	55 – 60
Modulus at 100% Elongation (ISO 8339)	> 0.60MPa
Elongation @ Break (ISO 8339)	> 60%
Tensile Strength (ISO 8339)	> 1.5 Mpa
Shrinkage (ISO 10563)	< 2%
Resistance To UV Radiation	Excellent
Compatibility With Paints	Water based: yes (test compatibility) Solvent based: no (with alkyd paints)
Temperature Resistance	-40 to +150°C
Coverage	Approximately 11 linear meters per cartridge Approximately 3 linear meters per squeezy pack

Health & Safety

Consult MSDS for full list of hazards.

Storage

Store in cool dry conditions between + 5°C and 25°C.

Shelf Life

Cartridge - 12 months in original unopened containers.
Squeezy Pack – 12 months in original unopened containers.