

PRODUCT DATA SHEET

EVERBUILD® EB25 Crystal Clear

A ONE-PART, CHEMICALLY-CURING SEALANT AND ADHESIVE BASED ON HYBRID POLYMER TECHNOLOGY

PRODUCT DESCRIPTION

To celebrate our 25th anniversary, Everbuild brings you our best ever sealant and adhesive; EB25. Using cutting-edge technology and a unique polymer blend, our R&D team has developed a truly universal, top quality hybrid.

It's extremely flexible, certified for indoor and outdoor use, and in sanitary and food preparation areas (ISEGA). Plus, it's exceptionally strong, sticks to almost anything and even works underwater! Once cured, it's resistant to mould, temperature extremes, chemicals, petrol, UV radiation, plus it does this whilst meeting the toughest emissions classification EC1plus.

EB25 – 25 years of Everbuild expertise.

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.
- 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.

PRODUCT INFORMATION

Packaging	300 ml cartridge
Shelf Life	12 months
Storage Conditions	Store in cool dry conditions between + 5 °C and 25 °C.
Colour	Crystal Clear

CHARACTERISTICS / ADVANTAGES

- Incredible initial grab, no slip and gap filling properties.
- High bonding strength.
- Interior and exterior use.
- Certified to the harmonized European standard for Sealants for façade and sanitary use.
- Can be applied to wet surfaces.
- Waterproof & weatherproof.
- Resistant to temperature extremes -40 °C to +70 °C.
- Excellent primerless adhesion to most surfaces, including metals, most plastics, glass, concrete, plaster, plasterboard, polyester, perspex, wood, enamel, painted surfaces, etc.
- Overpaintable with some paints (always test a small area first).

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.
- Food safe – ISEGA
- EMICODE EC1plus

Density ~ 1.05 g/cm³

TECHNICAL INFORMATION

Shore A Hardness	40±5
Elongation at break	>150 % (ISO8339)
Movement Capability	20 % (ISO9047)
Service Temperature	-40 to +70 °C
Joint Design	Max Joint Width: 25mm Min Joint Width (in sealing applications as a movement joint): 5 mm

APPLICATION INFORMATION

Yield	~ 10.5 linear metres at 6 mm bead
Ambient Air Temperature	+5 to +40 °C
Curing Time	~1.5 mm per 24 hours in depth
Skin Time	~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 overpainting 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®.
 - 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.

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, oil, grease and dust free.

APPLICATION METHOD / TOOLS

As a nail replacement (panel) adhesive.

Prime dusty surfaces with Everbuild® 501 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 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.

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 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 Everbuild® 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, EB25 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: Everbuild® Wonder Wipes or white spirit.

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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