

FOAMSEKURE®

Version No.2

Revision Date: 17/07/09

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DESCRIPTION

Foamsekure® XD security glazing tape is a unique foamtape of extraordinary shear strength and long-term adhesion, comprising of a closed cell polyolefin foam with a unique differential adhesive system specifically designed for security glazing into timber and PVCu windows and doors. Foamsekure® BMS is used for bonding coated timber and PVCu glazing bars and PVCu trims. Foamsekure® BMS can also be used for mounting lightweight components typically found in the automotive, caravan and electrical industries.

The exposed side adhesive is specifically designed for adhesion to PVCu and other low surface energy sash and frame materials and the liner adhesive is specifically designed for adhesion to glass. These surface specific adhesives provide optimum performance, weather resistance and longevity.

KEY FEATURES

Excellent long-term adhesion to a wide variety of surfaces, including timber, PVCu, steel, aluminium, plastic composites and glass.

Supplied on single strand reels with an 'easy peel' backing.

Approved for use with **Pilkington Activ™** self cleaning glass.

Use immediately – no special primers required.

Differential adhesive system provides improved structural performance and weather resistance.

Easy to compress

Polyolefin foam provides excellent weatherseal and durability.

Superior initial tack

CONFORMANCE

BS8000: Part 7: 1990

Glass and Glazing Federation Manual Section 4.2 Ref IG7.

BS6375: Part 1: 2004 Weathertightness UK exposure category.

NHBC chapter 6.7.

BS7950: 1997 Specification for enhanced security performance of casement and tilt/turn windows for domestic applications (annex A5 glazing removal test).

USES

Windows & Doors

Foamsekure® XD

Security Glazing of coated timber and PVCu windows with exterior beads to BS7950: 1997

Suitable for use with all glass types including laminate, solar control, low emissivity, toughened, polycarbonate and **Pilkington Activ™**.

For glazing PVCu door panels

Foamsekure® BMS

Bonding of coated timber and PVCu glazing bars

Industrial

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For mounting lightweight components typically found in the automotive, caravan and electrical industries.

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PERFORMANCE

Adhesion: Excellent to coated timber, PVCu, glass, many metals and most industrial surfaces

Compression to seal: 20%

Density: 64 to 96kg/m³

Shear Strength: 52N/cm²

Peel Adhesion: 21N/25mm

Service life (predicted): in excess of 20 years.

Service temperature range: -40°C to +70°C

Shrinkage: <1%

Slump: Nil.

Staining: Nil.

Tack: Excellent.

UV resistance: Good.

Typical values are not intended to be used for specification development. Technical data is believed to be true and accurate. Hodgson recommend that the product is tested for fitness for use in all applications.

APPLICATION

PROPERTIES

Application temperature range: +10°C to +40°C

Shelf life: 12 months when stored flat in original packaging in cool, dry conditions.

INSTRUCTIONS

Surface preparation: All surfaces should be clean, dry and free from frost, grease, loose materials and flat.

Application Foamsekure® XD: It is recommended that propan-2-ol (IPA) is used to clean the substrates. Ensure the cloths used are clean and allow the surface to dry prior to application of the product. Foamsekure® XD is designed to be applied directly to the joint surface and no special primers or sealers are required. Timber surfaces should be coated with at least one coat of a base stain or paint primer and allowed to fully dry prior to application of Foamsekure® XD. Apply adhesive face down to one of the joint surfaces in the required position aligned flush with the sightline. The tape should then be cut and butted closely together at the corners, do not overlap the tape. Apply pressure to the tape to ensure a suitable seal is achieved. Care must be taken during application to avoid any stretching of the material. Upon removal of the release liner apply Silfix® U9 along the butt joint.

Application Foamsekure® BMS: It is recommended that propan-2-ol (IPA) is used to clean the substrates. Ensure the cloths used are clean and allow the surface to dry prior to application of the product. Foamsekure® BMS is designed to be applied directly to the joint surface and no special primers or sealers are required. Timber surfaces should be coated with at least one coat of a base stain or paint primer and allowed to fully dry prior to application of Foamsekure® BMS. Apply adhesive face down to one of the joint surfaces in the required position; aligned flush with the glazing bar.

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Important design considerations for bar mounting:

Fit of bars:

It is important that glazing bars are designed to fit appropriately within the frame. Allowance should be incorporated into the design and cutting of glazing bars so that they fit comfortably inside the frame and allow for expansion and contraction. If bars are fitted too tightly they may engage with the perimeter glazing beads and prevent full contact of the tape with the glass. This is sometimes the case when cutting the ends of bars to match with scribed perimeter beads. Additionally, when bars fit too tightly, pressure points are created as the bars expand. This expansion can lead to the bars bowing or lifting from the surface of the glass.

Stability of bars:

Timber: It is important that bars are both straight and the glazing surface is flat. It will be difficult to achieve full surface contact of the sealant with the glass when trying to fit twisted bars or where the glazing surface is uneven. Warped bars may subsequently bow away from the surface of the glass after fitting (bead memory). Timber glazing bars may be prone to a great deal of movement due to the process of moisture uptake and loss. This may be controlled by the use of appropriate decorative finishes. The maintenance of these finishes is also important in order that a long service life is achieved. Please note that microporous paints/stains allow higher levels of moisture into and out of the timber. The movement of moisture into and out of the timber results in unwanted distortion and movement of the frame/glazing bars. To minimize this undesired effect it is very important that the frames are constructed and maintained correctly. It is advisable to glue or seal and then pin the end of glazing bars where they meet with the frame or perimeter glazing beads. This helps to prevent latent defects such as free ends of glazing bars bowing away from the glass. If a lattice style of glazing bar is to be used, the glazing surface of the joint must be as flat as possible. Raised sections of joint will interfere with achieving full surface contact of the tape with the glass.

PVCu: Plastic glazing bars move due to thermal expansion and contraction. Allowance should be made at the design and cutting stages to prevent latent bowing effects due to long fitting beads.

PACKAGING

Foamsekure® XD – 3mm/4.8mm thickness, 9 – 50mm width
Foamsekure® BMS – 1mm/2mm thickness, 9 – 30mm width

Available colours: Black and off-white.

GENERAL

Foamsekure® BMS & Foamsekure® XD are part of a full range of speciality sealants and tapes designed for the Glass & Glazing market. For further information please contact our Customer Care Team or visit our Website.

The information given in this product data sheet is based on laboratory tests and experience which we believe to be correct. Properties quoted are typical and do not therefore constitute a specification. In view of the wide range and variability of substrates, we would advise that our product should be tested by the user to establish suitability for its intended application. E &OE