



Sikaflex®-Windowseal

One Part Polyurethane Window Joint Sealant

Technical Data Sheet

DESCRIPTION

Sikaflex-Windowseal is a specially developed one part, low modulus, gun grade polyurethane based elastomeric joint sealant. It cures rapidly under the influence of atmospheric moisture to form a highly elastic material with excellent adhesion, resistance to weathering and capable of being overpainted.

USES

Sikaflex-Windowseal possesses exceptional qualities which make it the ideal multi-purpose window sealant for both internal and external applications.

- * The perimeter sealing of all types of windows and door frames. Treated wood, aluminium, powder coated aluminium and PVCu.
- * Bonding accessories such as architraves, weather boards etc.
- * Bonding window boards and eliminating the need for mechanical fixing.
- * Internal sealing and bonding to plaster without shrinkage and cracking in the plaster line.
- * In conservatories, the sealing of perimeter joints between new and existing structure. Plus the sealing between the various bolted sections to achieve a watertight joint.

ADVANTAGES

- * Excellent unprimed adhesion.
- * Easy to apply and tool off.
- * One component – no inconsistency due to mixing.
- * Environmental packaging choice of cartridge or sausage.
- * Permanently elastic over a wide temperature range.
- * Can be overpainted with oil, water and rubber based paints.
- * Non staining.
- * Reduced wastage.
- * Tolerance to damp surfaces.
- * Correctly applied **Sikaflex-Windowseal** is maintenance free. However, its excellent self bonding properties enable any damage to be repaired and underfilled joints to be topped up where required.

Technical Data (typical)

Colour:	White and brown
Density:	1.3 kg/litre
Movement Accommodation Factor (MAF):	25%
BS ISO 11600 classification:	F-25LM
Service temperature range:	-40°C to +80°C
Cure rate:	2 mm/day (+20°C / 65% RH)
Application temperature:	+5°C min, 35°C max (Substrate and ambient)
Shore A hardness:	15 - 20 after 28 days
Tack free time:	3 - 5 hours (+23°C / 50% RH)
Elastic recovery:	>80%
Maximum joint width:	30.0 mm
Minimum joint depth for expansion joints:	8.0 mm
Modulus:	<0.1 N/mm ² @ 50% elongation

Sikaflex-Windowseal complies with the performance requirements of:

BS8213 - Code of Practice for the installation of replacement windows and doorsets in dwellings

The Code of Practice for the installation of white high impact modified PVCu windows (Glass and Glazing Federation and the British Plastics Federation).

All above values are approximate.

SURFACE PREPARATION

All surfaces should be sound, clean, dry and free from any contaminants.

PRIMING

(for additional advice consult the Sealant Primer Data Chart)

Priming is not normally required for gap sealing on PVCu, ceramics, stainless steel, anodised aluminium, synthetic veneers, epoxy coatings, G.R.P., most timbers. Woods treated with high quality preservative treatments (e.g. Sadolin), do not normally require priming. Porous surfaces may require priming for maximum adhesion.

APPLICATION

- * Insert **Sika Joint Backing Rod** to required depth.
- * Apply appropriate primer if necessary to joint sides and observe waiting time before application of **Sikaflex-Windowseal**.
- * Insert cartridge or sausage into sealant gun and firmly extrude **Sikaflex-Windowseal** into the joint making sure that it is in full contact with the sides of the joint.
- * Fill the joint, avoiding air entrapment.
- * **Sikaflex-Windowseal** should be tooled to a smooth finish.

Masking tape should be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft.

IMPORTANT CONSIDERATIONS

- * **Sikaflex-Windowseal** should not be used for structural glazing.
- * **Sikaflex-Windowseal** should be used with care in resealing joints that were previously filled with silicone sealants. Silicone residue must be removed.
- * Bonded elements may require additional holding or support during curing period.
- * **Sikaflex-Windowseal** may be overpainted. However some paints may crack if movement occurs, preliminary tests recommended.
- * Do not use **Sikaflex-Windowseal** in contact with materials containing bitumen or pitch.

CLEANING

Clean tools immediately with **Sika® Thinner C**.

PACKAGING

Refer to latest price list.

CONSUMPTION

Theoretical consumption of **Sikaflex-Windowseal** per 600cc sausage (without wastage):

$$\text{Length of joint (m)} = \frac{600}{\text{Joint width (mm)} \times \text{joint depth (mm)}}$$

$$\text{Litres/metre run of joint} = \frac{\text{Joint width (mm)} \times \text{joint depth (mm)}}{1000}$$

$$\text{No of cartridges / sausages required for joint} = \frac{\text{Joint width (mm)} \times \text{joint depth (mm)} \times \text{length (m)}}{\text{volume of cartridge/sausage (ml)}}$$

STORAGE AND SHELF LIFE

9 months from date of production if stored in cool, dry conditions (+10°C to +25°C).

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

SIKA LIMITED

Watchmead, Welwyn Garden City, Hertfordshire, AL7 1BQ

Tel: 01707 394444 Email: sika@uk.sika.com

Fax: 01707 329129 www.sika.com

