

PRODUCT DATA SHEET

Casco[®] PaintFlex

MULTI PURPOSE CONSTRUCTION SEALANT



DESCRIPTION

Casco[®] PaintFlex is a 1-part, multipurpose, Phtalate free, elastic joint sealant designed for joints in building envelopes. It has good adhesion to most construction materials. Provides a waterproof seal with non-yellowing properties and is over-paintable. Movement capability $\pm 25\%$. Internal and external use.

USES

Sealing joints for:

- Facade elements
- Window and door frames
- Interior and exterior joints with a limited amount of movement
- Overpaintable

CHARACTERISTICS / ADVANTAGES

- Phthalate free
- Movement capability $\pm 25\%$
- Very easy to apply
- Low stress on substrate
- Good non-yellowing properties
- Overpaintable

SUSTAINABILITY

VOC emission classification Eurofins EC 1PLUS
Conformity with LEED v4 EQc 2: Low-Emitting Materials

APPROVALS / CERTIFICATES

CE Marking and Declaration of Performance to EN 1565-1 - Sealants for non-structural use in joints-Facade elements

EN ISO 11600: Building construction - Jointing products - Classification and requirements for sealants
ASTM C920 - 14: Standard Specification for Elastomeric Joint Sealants

PRODUCT INFORMATION

Composition	Hydroflex technology
Packaging	280 ml cartridge
Colour	White
Shelf life	12 months in unopened package
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C.
Density	~1,50 kg/l (ISO 1183-1)

TECHNICAL INFORMATION

Shore A Hardness	Approx. 15 (after 28 days) (ISO 868)
Secant Tensile Modulus	Approx. 0,10 N/mm ² at 60 % elongation (23 °C) Approx. 0,40 N/mm ² at 60 % elongation (-20 °C) (ISO 8339)
Elongation at Break	Approx. 400 % (ISO 8339)
Tear Propagation Resistance	Approx. 2,0 N/mm (ISO 34)
Movement Capability	±25 % (ISO 9047) (ASTM C 719)
Service Temperature	-40 °C min. / +70 °C max.
Joint Design	Min. ≥ 8 mm to max ≤ 20 mm

APPLICATION INFORMATION

Backing Material	Use closed or open cell, polyethylene foam backing rod
Sag Flow	0 mm (20 mm profile, +50 °C) (ISO 7390)
Ambient Air Temperature	+5 °C min./+40 °C max.
Substrate Temperature	+5 °C min./+40 °C max. Min. +3 °C above dew point temperature
Curing Rate	Approx. 2 mm (+23 °C / 50 % r.h.)
Skimming time	Approx. 30 minutes (23 °C / 50 % r.h.)
Tooling Time	Approx. 20 minutes (23 °C / 50 % r.h.)

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be clean, dry, sound and free of all contaminants such as dirt, oil, grease, cement laitance, old sealants and poorly bonded paint coatings which could affect adhesion of the sealant. The substrate must be of sufficient strength to resist the stress induced by the sealant during movement. Casco® PaintFlex adheres without primers and/or activators. Concrete, aerated concrete and cement based renders, mortars and bricks surfaces can be primed if required using Casco® PaintFlex dissolved in water (ratio 1:1–1:5) and applied by brush.

Iron and steel

Must be protected with an anti-corrosion primer. Contact Sika Technical Services for additional information.

APPLICATION METHOD / TOOLS

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

Masking

It is recommended to use masking tape where neat or exact joint lines are required. Remove the tape within the skin time after finishing.

Joint Backing

After the required substrate preparation, insert a suitable backing rod to the required depth.

Application

Casco® PaintFlex is supplied ready to use. Prepare the end of the foil pack or cartridge, insert into the sealant gun and fit the nozzle.

Extrude Casco® PaintFlex into the joint ensuring that it comes into full contact with the sides of the joint and avoiding any air entrapment.

Finishing

As soon as possible after application, the sealant must be firmly tooled against the joint sides to ensure adequate adhesion and a smooth finish. Water can be used if wet tooling is required. Do not use tooling products containing solvents.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically. For cleaning skin, use soap and water or Casco Brutal Wipes.

FURTHER INFORMATION

Method Statement: Joint Maintenance, Cleaning and Renovation.

IMPORTANT CONSIDERATIONS

Colour variations may occur due to the exposure of chemicals, high temperatures and/or UV-radiation This effect is aesthetic and does not adversely influence the technical performance or durability of the product. Casco® PaintFlex can be painted with most conventional paint systems. However, paints must first be tested to ensure compatibility by carrying out preliminary trials (e.g. according to ISO technical paper: Paintability and Paint Compatibility of Sealants). Optimum results are obtained when the sealant is allowed to fully cure first. Allow at least 1 hour drying time before over-painting.

Note: non-flexible paint systems may impair the elasticity of the sealant and lead to cracking of the paint coating.

- Do not use Casco® PaintFlex on natural stone
- Do not use for structural glazing or as a glass sealant.
- Do not use on bituminous substrates, natural rubber or any building materials which might leach oils, plasticisers or solvents that could degrade the sealant. EPDM or other gaskets in direct contact with Casco® PaintFlex have to be tested for compatibility prior to application. For specific advice contact Sika technical services.
- Do not use Casco® PaintFlex to seal joints in and around swimming pools.
- Do not use Casco® PaintFlex for joints under water pressure or for permanent water immersion.
- Do not use for trafficked floor joints. Contact Sika Technical Services for advice on alternative products.
- Do not use for medical or pharmaceutical applications.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Casco 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 or on the website www.casco.eu.