

PRODUCT DATA SHEET

Casco® PaintFlex

Overpaintable elastic sealant for multi use



DESCRIPTION

Casco® PaintFlex is a 1-part, multipurpose, elastic joint sealant based on patented technology. Has good adhesion to most construction materials. Provides a waterproof seal with non-yellowing properties and is over-paintable. Movement capability $\pm 25\%$. Primarily for indoor use.

USES

- Joints which need to be over-painted
- Joints around doors, windows or any other connection joint (mainly interior)
- Filling cracks and gaps interior and exterior
- Should be over-painted outdoors

CHARACTERISTICS / ADVANTAGES

- Over-paintable
- Elastic and crack free
- Movement capability $\pm 25\%$
- Easy to apply, can be tooled with water
- Phthalate-free and low emission (EC1+ and M1)
- Low stress to the substrate
- Good color stability

PRODUCT INFORMATION

Composition	Hydroflex technology
Packaging	280 ml cartridge
Colour	White
Shelf life	24 months in unopened package
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between $+5\text{ }^{\circ}\text{C}$ and $+25\text{ }^{\circ}\text{C}$.

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Density	Approx 1,50 kg/l	(ISO 1183-1)
Product declaration	EN 15651-1: F EXT-INT, 12,5 E EN ISO 11600: F 12,5 E-M1up ASTM C920: Type S, Grade NS, Class 25	

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)
Tensile strain 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

The joint width must be designed to suit the movement capability of the sealant. The joint width shall be ≥ 8 mm and ≤ 30 mm.
A width to depth ratio of 2:1 must be maintained (see table below).

Joint dimensions

Joint distance [m]	Min. joint width [mm]	Min. joint depth [mm]
2	8	8
4	15	8
6	20	10
8	30	15

All joints must be correctly designed and dimensioned in accordance with the relevant standards and codes of practice before their construction. The basis for calculation of the necessary joint widths are the type of structure, dimensions, technical values of the adjacent building materials, joint sealing material, and the specific exposure of the building and the joints.

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 to +40 °C	
Substrate temperature	+5 °C to +40 °C	
Curing rate	Approx. 2 mm/24hrs. (+23 °C / 50 % r.h.)	
Skinning time	Approx. 30 min. (23 °C / 50 % r.h.)	
Tooling time	Approx. 20 min. (23 °C / 50 % r.h.)	

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.

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. 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.

LIMITATIONS

- 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.
- Do not use for trafficked floor joints.
- 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.

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.

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.

Iron and steel must be protected with an anti-corrosion primer.

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.

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.

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.

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