

PRODUCT DATA SHEET

Casco® Superfix+

SUPER STRONG ADHESIVE WITH SEALING PROPERTIES



DESCRIPTION

Assembly mastic with sealing properties and excellent adhesion to most materials.
The unevenness in the joint can be several millimetres.
The elastic properties combine the ability to distribute forces, take up vibrations and hold large forces without tendency for cold flow.
Does not affect foamed polystyrene negatively.

USES

Excellent adhesion to most materials as metal, wood, glass, plastics and porous substrates.

CHARACTERISTICS / ADVANTAGES

- High thixotropic and easy to apply
- Phthalate free
- Tough joint and high strength
- Excellent chemical resistant
- Very high ageing properties and temperature resistance
- No shrinkage and extremely good joint filling properties
- Can be used in Nordic Swan Eco labelled Buildings

APPROVALS / CERTIFICATES

Casco® Superfix+ is CE-marked according to EN 15651-1:2012. F EXT-INT CC.

PRODUCT INFORMATION

Composition	SMP (Silane Modified Polymer)	
Packaging	300 ml Cartridge and 600 ml sausage (white)	
Colour	White, Black and Zink grey	
Shelf life	12 months from the date of production in original unopened package	
Storage conditions	Casco® Superfix+ shall be stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +25 °C.	
Density	Approx. 1400 kg/m ³	(ISO 1183-1)
Solid content by weight	100%	
Consistency	Gun-grade thixotropic paste	

TECHNICAL INFORMATION

Shore A Hardness	Approx. 45 (after 28 days)	(ISO 868)
Tensile Strength	Approx. 2.2 N/mm ²	(ISO 37)
Elongation at Break	Approx. 500%	(ISO 37)

Tear Propagation Resistance	7 N/mm ² approx.	(ISO34)
Chemical Resistance	Casco® Superfix+ has very good resistance to many chemicals, for example water, rapeseed oil, naphtha, ketones, diesel oil, motor oil, sodium hypochlorite, diluted bases and acids.	
Service Temperature	-40 °C to +80 °C	

APPLICATION INFORMATION

Product Temperature	Application temperature: +5°C - +40°C	
Relative Air Humidity	Minimum 30 % RH	
Curing Rate	3 mm the first 24 h. (23°C / 50% RH) Approx. 10 mm after 7 days (23°C / 50% RH)	(CQP 049-2)
Open Time	Approx. 20 minutes (23°C / 50% RH)	(CQP 019-1)

APPLICATION INSTRUCTIONS

The joint interface must be clean, dry and free from oils, loose aggregates and other contaminants. A thorough wire brushing, grinding or solvent cleaning may be required to expose clean, sound surfaces. Apply the adhesive in strings or dots. Thicker strings/dots are used if the surfaces are uneven. Never apply continuous film if two non-porous materials with large surfaces is glued. String or dot gluing will allow the moisture necessary for curing to pass to the centre of the joint.

Assemble the parts before skin has formed (approx. 20 minutes at room temperature, shorter time at higher temps.)

A fixation may be needed in some cases, until the cure is completed. The joint is possible to handle after 1 to 24 hours, depending on materials glued, temperature and joint thickness.

See below for recommendations on different materials.

Metal

Casco® Superfix+ bonds without primer on metal surfaces such as aluminium, zinc, steel, stainless steel, etc.

In general there is also good adhesion to painted and coated metals. It does not bond to lead, and not recommended to brass or copper.

Wood

The adhesion is good to most woods (not impregnated wood), assuming the surface is freshly sanded. Pre-test on especially "fat" woods are recommended.

Glass

Casco® Superfix+ bonds to glass without primer. For outdoor glass constructions with high UV-exposure on the bond line through the glass, Casco® Superfix+ is not recommended.

Plastics

Casco® Superfix+ bonds to un-plasticised PVC, polyester, epoxy, polyurethane, melamine, etc.

Pre-testing is recommended on acrylic, ABS, styrene, polycarbonate and plasticised PVC. There is no adhesion to untreated polyolefin.

The adhesion to polyethylene, polypropylene and fluorinated plastics is low.

Porous substrate

With an elastic adhesive it is always harder to get adhesion to porous substrates. Always consider a coating if the substrate is too weak, preferable to pre-test. The adhesion to wet concrete might be poor. If in doubt contact technical service.

Adhesion to most natural stones is good.

It is recommended to make pre-tests.

APPLICATION METHOD / TOOLS

Sealant gun

CLEANING OF EQUIPMENT

Remove all excess sealant adjacent to joint and on equipment prior to cure with Casco® Brutal Wipes, White spirit or technical ethanol is used if necessary. Cured adhesive is removed mechanically.

On skin, uncured sealant is wiped off with Casco® Brutal Wipes, wash your hands afterwards.

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IMPORTANT CONSIDERATIONS

LIMITATIONS

Casco® Superfix+ is moisture curing.

The access of moisture to the adhesive to be cured is essential. Cold and dry surroundings will slower the cure significantly.

When gluing watertight surfaces, moisture access must be secured. A combination of watertight surfaces and dry conditions can give an unacceptable slow cure.

Adhesion problems can also occur as a result of lack of moisture. If cure time is important, always pre-test the design under the worst conditions anticipated.

Over painting works well with many paint products. Pretesting of drying and adhesion of the paint is always recommended. The adhesive is elastic and can flex a little over the joint. This will lead to cracking of most types of paint. If Casco® Superfix+ is used as a sealant, these cracks can in worst case cause cracking of the joint.

Do not use Casco® Superfix+ on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might bleed oils, plasticizers or solvents that could attack the sealant.

Casco® Superfix+ doesn't bond Polyethylene (PE), Polypropylene (PP), Polytetrafluoroethylene (PTFE) Teflon and other greasy plastics.

Before using Casco® Superfix+ on natural stone, do a pre-testing.

Do not expose uncured Casco® Superfix+ to alcohol containing products as they may interfere with the curing reaction.

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.

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.

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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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