PRODUCT DATA SHEET

Casco® FloorSeal Golvfog +

Moisture curing medium modulus elastic sealant for indoor sealing of expansion joints

DESCRIPTION

Elastic sealant for indoor sealing of expansion joints in wood, concrete, clinker and natural stones.
Suitable for outdoor connecting joints to walls, doorsteps, stair-cases and sealing of building units.

USES

Excellent adhesion to most materials without primer.
Casco® FloorSeal Golvfog + is also excellent for seaming of wood floors.

FEATURES

- Sandable and elastic
- Paintable with most paints (Pre-testing is always recommended)
- Excellent adhesion to most materials without primer
- Excellent tooling characteristics

CERTIFICATES AND TEST REPORTS

- CE Marking and Declaration of Performance to EN 15651-1 - Sealants for facade elements F EXT-INT CC 20HM
- CE Marking and Declaration of Performance to EN15651-3 - Sealants for sanitary joints S XS3
- CE Marking and Declaration of Performance to EN15651-4 - Sealants for pedestrian walkways PW INT 20HM

PRODUCT INFORMATION

Composition	Silane terminated polymer	
Packaging	300 ml cartridges	
Shelf life	12 months from the date of production	
Storage conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5°C and +25°C. Always refer to packaging.	
Colour	Colour range to be defined by local sales organisation.	
Density	~1,45 kg/l	(ISO 1183-1)
Viscosity	Gun-grade thixotropic	
Shore A hardness	~48 (after 28 days)	(ISO 868)
Tensile strength	~2,0 N/mm²	(ISO 37d)

Secant tensile modulus	~0,9 N/mm² at 60% elongation (+23°C)	(ISO 8339)
Tensile strain at break	~550%	(ISO 37)
Movement capability	± 20%	(ISO 9047)
Elastic recovery	~80%	(ISO 7389)
Tear propagation resistance	~13 N/mm	(ISO 34)
Service temperature	-50°C min. / +90°C max.	
Joint design	▪ The joint dimensions must be designed to suit the movement capability of the sealant. ▪ The joint width must be a minimum of 6 mm and a maxim-um of 30 mm. ▪ A width to depth ratio of 2:1 must be maintained for movement joints. ▪ Joint widths less than 10 mm are generally for crack control and there-fore considered as non-movement joints (static).	

Yield

Board Width in mm	35	50	75	100
Seam Width in mm	5	6-7	10	12
Quantity es-timation m/300ml	10,0	7,1	4,2	3,5

Dimension of Casco® FloorSeal Golvfog +

Sag flow	0 mm (20 mm profile, +23°C)	(ISO 7390)
Ambient air temperature	+5°C min. / +40°C max.	
Substrate temperature	+5°C min. / +40°C max. Minimum +3°C above dew point temperature	
Backing material	Use closed cell, polyethylene foam backing rod	
Curing rate	~3 mm / 24 hours (+23°C / 50% r.h.) *Sika Corporate Quality Procedure Note: Final strength will be reached after complete curing, i.e. after 24 to 48 hours at +23°C, depending on the environmental conditions and ad-hesive layer thickness.	(CQP* 049-2)
Skinning time	~45 minutes (+23°C / 50% r.h.)	(CQP 019-1)

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.

LIMITATIONS OF USE

Casco® FloorSeal Golvfog + is not recommended for:
- Structural or butt glazing, or other applications where UV-light can affect the adhesion.
- Joints less than 5 mm in width or depth.
- Swimming pools and the other like with water con-taining chlorine based disinfectants.
- Do not use on natural rubber, EPDM rubber or on any building materials which might leach oils, plasti-cisers or solvents that could degrade the adhesive.
- Do not use on bituminous substrates.
- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and cer-tain plasticised synthetic materials.
- Do not expose the uncured Product to alcohol con-taining products as this may interfere with the curing reaction.

PAINTABILITY

It is not recommended to over-paint an elastic sealant, since it reduces the joint movement capability. Casco® FloorSeal Golvfog + is however compatible with most floor materials, oils, lacquers or paints.
The drying time for alkyd or oil based paints might be extended.
Also, a thin layer of paint can prolong the drying time.
It is recommended to always let the joint cure 1-3 days before painting.
Pre-testing is always recommended.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

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

After the joint is properly prepared, apply the sealant using a caulking gun. Cut the nozzle at an angle and less than the width of the seam.
Material must be pressed firmly into the joint to assure complete wetting of the bonding surface.
Immediately after application tooling is recommended to ensure firm, full contact with joint sides.
The surface can be smoothened with a wet sealant tooling stick or/and sponge.
Be sure not to contaminate open joint with water. Use pure water or water with a small amount of soap/detergent. Too much soap can affect the tack free time

SEAMING OF WOOD FLOORS

Floor Types
The wood floor could either be of tongue and groove type or consist of floor boards with straight edges. The floor could either be glued down or supported by a framework.

Conditioning
The wood flooring material should always be conditioned to the climate of the room.
Read and follow the instructions from the supplier of flooring material thoroughly.
If the wood contains an excessive or a too low amount of humidity the wood will swell or shrink more than estimated.

Cleaning of wooden floor
In order to secure long lasting good adhesion to the contact edges of the joint a thorough cleaning is necessary.
The joint surface should be freshly cut and dry, therefore a milling cutter provides the best alternative.
Sometimes it is just possible, e.g. on old floors, to work with knife and sandpaper.
When sanding it is important to create as sharp edges as possible (fold the paper so it will fit the joint space perfectly).

Estimation of Joint Width
It is important that the joint will be adapted to the width of the board. The minimum width is 5 mm independently from the width of the board. The depth of the seam should never exceed the width of the seam. See table above.

Application of Joint Backing Tape
To ensure movement capability it is necessary to prevent adhesion to the bottom of the seam.
It is recommended to apply joint backing tape in the bottom of the seam.
If the seam is thicker than 8 mm the depth of the seam should be adjusted to comply with the above table by applying backing rod of closed polyethylene foam*. Be sure not to damage the backing rod. Gas from the damaged foam could cause blistering of the sealant.

*Note that in some Nordic countries e.g. Denmark backing rod of closed polyethylene is not recommended for seaming. Other types of material like acid resistant paper, EPDM rods or nealed polyester felt is recommended.

SUBSTRATE PREPARATION

The substrate must be sound, clean, dry 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 adhesive / sealant.
A thorough wire brushing, grinding, sand blasting or solvent cleaning may be required to expose clean, sound surfaces.
Apply a joint backing rod of foamed polyethylene that is approx. 25% wider than the joint.
If the available space does not allow a backing rod, prevent adhesion to the bottom of the joint by other means, e.g. with polyethylene tape.
Both curing and adhesion is dependent on sufficient amount of moisture. If Casco® FloorSeal Golvfog + is applied under dry conditions or between watertight materials, extra time or moisture might be necessary to obtain optimum cure and adhesion.
We always recommend pre-test if you are doing jobs in big scale to ensure best adhesion results.
For concrete façade expansion joints, more elastic and low modulus, Casco® Multiseal Byggfog is recommended.

METAL
The adhesion to most metals is excellent. Raw aluminium might give adhesion loss after exposure to corrosive environment. FloorSeal Golvfog does not bond to lead.

WOOD
The adhesion to dry wood is generally very good.
The adhesion to dry teak is very good without primer.

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

PLASTICS
Casco® FloorSeal Golvfog + bonds to un-plasticised PVC, polyester, epoxy, polyurethane, melamine, etc. Pretesting is recommended on acrylic, ABS, styrene, polycarbonate and plasticised PVC.
The adhesion to polyethylene or polypropylene is low.

POROUS SUBSTRATES
If the surface strength is good enough, the adhesion of Casco® FloorSeal Golvfog + is very good to most porous substrates. For granite marble, natural stones it is recommended to use Primer.

CONCRETE
The adhesion to fresh or wet concrete is weak. For this application it is recommended to use Primer It is recommended to make pre-test.

APPLICATION

When backing rod is applied the application of the sealant can start. When the floor is not going to be grinded masking tape could make the seaming job much easier.
Cut the nozzle 1-2 mm less than the width of the seam.
Fill the seam from the bottom and up to avoid bubbles. Pull the sealant gun along the seam which will be filled behind the nozzle.
Fill the seam with some excess of sealant firmly into the seam using a joint tool. This is done to ensure complete wetting of the bonding surfaces.
The sealant is normally cured within 2-5 days depending of temperature and humidity.
Recommendation: Seal separately one piece of floor and check the curing.

Grinding
After curing, large excess of sealant is removed with a wood chisel or knife. This is done to avoid tensile stress of the sealant edges.
Grind in the direction of the seam with an industrial machine with a dust collector.
Grinding paper as recommended for the surface treatment. Normally start with 80 and finish with 120.

Surface can be treated with oil, lacquer and caustic solution.
The sealant must be completely cured before treatment.
There are many after treatment products on the market.
Casco® FloorSeal Golvfog + is compatible with most of these products.
Alkyd and urethane alkyd lacquers and paints can in some cases dry slower on the sealant.
Since it is not possible to test all products on the market it is *highly recommended to perform a pre-test* some days before starting.

CLEANING OF EQUIPMENT

Remove all excess sealant adjacent to joint and on equipment prior to cure with a rag.
White spirit or technical ethanol is used if necessary.
Cured sealant is removed mechanically.
On skin, uncured sealant is wiped off with a rag, then wash with soap and water.

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.

Sika Sverige AB
Domnarvsgatan 15
Box 8061
SE- 163 08 Spånga Sweden
TEL: +46 8 621 89 00
info@se.sika.com
www.casco.eu