

PRODUCT DATA SHEET

Casco® AquaSeal

STP based connection joint sealant for wet rooms



DESCRIPTION

Casco® AquaSeal is a 1-part, STP based, silicone free, moisture curing, elastic construction sealant with good mold resistance. It is especially suited for connection joints in interior and exterior wet areas.

USES

The product can be used for connection and fillet joints in:

- Ceilings
- Walls
- Floors
- Bathrooms
- Showers
- Kitchens

The product can be used for interior and exterior applications.

CHARACTERISTICS / ADVANTAGES

- Long-term resistance to fungus and mold
- Low odor and low emission
- Free of isocyanates
- Free of silicone
- Good resistance against cleaning agents
- Compatible with Casco's wet room systems
- Overpaintable

SUSTAINABILITY

- VOC emission classification GEV-EMICODE EC 1^{PLUS}
- VOC emission classification of building materials RTS M1

APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN15651-3 - Sealants for sanitary joints S XS1

PRODUCT INFORMATION

Composition	Silane terminated polymer
Packaging	300 ml cartridges, 6 or 12 cartridges per box depending on colour Refer to current price list for packaging variations
Colour	Colour range to be defined by local sales organisation.
Shelf life	12 months from the date of production
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. Always refer to packaging.
Density	~1.4 kg/l (ISO 1183-1)

TECHNICAL INFORMATION

Shore A hardness	~40 (after 28 days) (ISO 868)
Tensile strength	~2.0 MPa (ISO 37)
Elongation at break	~450 % (ISO 37)
Tear propagation resistance	~6 N/mm (ISO 34)
Movement capability	+/-20 % (ISO 9047)
Service temperature	-40°C to +70°C
Joint design	The joint width must be designed to suit the movement capability of the sealant. The joint width shall be ≥ 6 mm and ≤ 20 mm. A width to depth ratio of 2:1 must be maintained. Joints ≤ 10 mm in width are not considered as movement joints.

APPLICATION INFORMATION

Consumption	Joint width [mm]	Joint depth [mm]	Joint length [m] per 300 ml
	6	6	10.8
	10	10	3
	15	10	2
	20	10	1.5
Consumption depends on the roughness and absorbency of the substrate. These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.			
Backing material	Use closed cell, polyethylene foam backing rods		
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	~3 mm / 24 h (23 °C / 50 % r.h.)		(CQP 049-2)
Skinning time	~40 min. (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.

IMPORTANT CONSIDERATIONS

- For good workability, the adhesive temperature must be +20 °C.
- Application during high temperature changes is not recommended (movement during curing).
- Casco® AquaSeal can be overpainted with most conventional water-based coating and paint systems. However, paints must first be tested to ensure compatibility by carrying out preliminary trials. The best over-painting results are obtained when the adhesive is allowed to fully cure first. Note: non-flexible paint systems may impair the elasticity of the adhesive and lead to cracking of the paint film.
- Colour variations may occur due to the exposure in service to chemicals, high temperatures and/or UV radiation (especially with white colour shade). This effect is aesthetic and does not adversely influence the technical performance or durability of the product.
- Casco® AquaSeal is a sealant and cannot be used for bonding applications.
- Do not use on natural rubber, EPDM rubber or on any building materials which might leach oils, plasticisers 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 certain plasticised synthetic materials.
- Casco® AquaSeal is protected against mildew, all joints, even grouts, infected with mildew must be removed, cleaned and restored before Casco® AquaSeal is applied.
- Do not use Casco® AquaSeal for structural or butt glazing, or similar applications with high UV light exposure and high movements which can affect the adhesion.
- Do not use Casco® AquaSeal for joints in and around swimming pools. Casco® AquaSeal is not resistance against chlorine water and other aggressive disinfectants.
- Casco® AquaSeal is not resistant against hydrocarbon solvents and fuels.
- Do not use Casco® AquaSeal for sealing aquariums.
- Do not use Casco® AquaSeal for movement joints in facades.
- Do not use Casco® AquaSeal for joints under water pressure or for permanent water immersion.
- Before using Casco® AquaSeal on reconstituted, cast or natural stone, contact Sika Technical Service.

Maintenance

Casco® AquaSeal is recommended for elastic joints in wet areas. Casco® AquaSeal contains a mold retardant. However, the joint must be cleaned and maintained regularly for proper function.

After shower or bath all joints should be rinsed from residues of shampoos and soaps etc. Keep the area as dry as possible by using proper ventilation.

The joints should be cleaned with normal house hold cleaning agents as a part of normal cleaning routines, depending on use.

If the joint has been discoloured or a mildew attack has occurred, it might be necessary to clean the joint by using a detergent, a mildew cleaner or Casco Brutal Wipes.

If a severe mildew attack is present a total control of the damage must be done. This involves investigation of mildew attack under the tiles. We recommend special professionals for this type of work.

If the investigation indicates no mildew, cut out the damaged area without damaging the water sealing membrane beneath, and re-caulk.

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

Note: Primers are adhesion promoters and not an alternative to improve poor preparation / cleaning of joint surfaces. Primers also improve the long-term adhesion performance of a sealed joint.

- 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 sealant.
- The substrate should be of sufficient strength to resist with the stresses induced by the sealant during movement.
- Use wire brushing, abrading or grinding equipment to prepare the surface.
- All dust, loose and friable material must be completely removed from all surfaces before application of any activators, primers or sealant
- Casco® AquaSeal adheres without primers and/or activators. However, for optimum adhesion, joint durability and critical, high performance applications the following priming and/or pre-treatment procedures must be followed:

Non-porous substrates

Aluminium, anodised aluminium, galvanised steel, glass, glass fibre composites, glazed tiles, mirrors, powder coated metals, PVC, stainless steel.

1. Lightly roughen the substrate with a fine abrasive pad.
2. Clean and pre-treat using Casco® Activator 22 applied with a clean cloth.
3. Before bonding / sealing, allow a waiting time of > 15 minutes (< 6 hours).

Porous substrates

Concrete, aerated concrete and cement-based renders, mortar, brick, wood.

1. Prime the substrate using Casco® Primer 21 applied by brush.
2. Before bonding / sealing, allow a waiting time of > 30 minutes (< 8 hours).

MIXING

1-part ready to use

APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Note: Allow the primer or pre-treatment product, if applied, to achieve the required waiting time before sealing.

Sealing Procedure

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.

Pre-treatment

Pre-treat the joint surfaces as recommended in substrate preparation. Avoid excessive application of primer to avoid causing puddles at the base of the joint.

Application

1. Cut the top off the cartridge before or after inserting into the sealant gun.
2. Fit the nozzle onto the cartridge.
3. Cut the nozzle to the required bead size.
4. Extrude the product into the joint ensuring that it comes into full contact with the sides of the joint and avoiding any air entrapment.

Finishing

Note: Do not use tooling products containing solvents.

- As soon as possible after application, firmly tool the sealant against the joint sides to ensure adequate adhesion and a smooth finish.
- Use a compatible tooling agent to smooth the joint surface.

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after use with Casco® Seal Remover. Hardened material can only be removed mechanically. For cleaning skin use 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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