

PRODUCT DATA SHEET

Casco[®] Sanitary Silicone

MOISTURE CURING ALKOXY TYPE, HIGHLY ELASTIC, LOW MODULUS SEALANT.



DESCRIPTION

Good adhesion to most building materials without primer.

USES

Mainly intended for use in bathrooms, kitchens and other places with high humidity but can also be used outdoor.

CHARACTERISTICS / ADVANTAGES

- Anti-mold treated silicone sealant for wet areas
- Low odour environmentally friendly silicone
- Excellent tooling characteristics for professional use
- Has excellent outdoor weather, UV and water resistance

APPROVALS / CERTIFICATES

EN 15651-1; 2012, F EXT-INT CC
EN 15651-2; 2012, G CC
EN 15651-3; 2012, S

PRODUCT INFORMATION

Composition	Alkoxy silicone	
Packaging	300 ml cartridge	
Colour	Color range to be defined by local sales organization.	
Shelf life	At least 18 months in unopened package. After 18 months the reactivity will gradually decrease and will result in an insufficient curing of the sealant. Check the production date and if exceeded pre-test the curing time.	
Storage conditions	Stored in a cool (below 25 °C) dry place.	
Density	Approx. 1010 kg/m ³	(ISO 1183)
Viscosity	Gun-grade thixotropic	
Volatile organic compound (VOC) content	None	

TECHNICAL INFORMATION

Shore A Hardness	Approx. 24 Shore A	(ISO 868)
Tensile Strength	0,70 MPa/mm ²	(ISO 37)

Modulus of Elasticity in Tension	100 % 0,37 MPa	(ISO 8339)
Elongation at Break	300 %	(ISO 37)
Service Temperature	-40 °C to +150 °C	
Joint Design	Joint width: 5-30 mm	
	METAL	The adhesion is good to unionized and lacquered aluminium, stainless steel. Iron, copper and galvanized steel should be primed and/or painted before sealing.
	WOOD	Lacquering or painting before sealing is recommended. A primer is recommended at humid and wet conditions.
	GLASS	Bonds perfectly to glass. Always clean the glass by wiping with ethanol or acetone (avoid contact with coatings e.g. with window frames)
	PLASTICS	The adhesion to hard PVC, plasticized PVC, polystyrene, ABS, polycarbonate, polyacrylatex, polyamide and epoxy is good.
	POROUS	On porous material like concrete and fresh bricks it is recommended to always use a primer. It is especially important for expansion joints e.g. for the concrete when installing aluminium windows.
It is recommended to make pre-tests.		

APPLICATION INFORMATION

Substrate Temperature	+5 °C - +40 °C	
Substrate Moisture Content	Minimum 30 % RH	
Curing Time	Approx. 2 mm the first 24 hours	(CQP 049-2)
Skinning time	10-35 minutes (23°C 50% RH)	(CQP 019-1)

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Joint interface must be clean, dry and free from oils, loose aggregates, laitance, release agents, waterproofing and other contaminants.

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.

APPLICATION METHOD / TOOLS

APPLICATION

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. Take care 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.

DIRECTIONS FOR USE

Both curing and adhesion is dependent on sufficient amount of moisture. If Casco® Sanitary Silicone is applied under dry conditions or between watertight materials, extra time or moisture might be necessary to obtain optimum cure and adhesion. See above table for recommendation of pre-treatment on different materials. Immediately after application the compound is pressed into good contact with the sides to ensure complete wetting of the bonding surfaces. Smooth the sealant with a trowel or a smooth moist tooling stick.

TOOLS

Sealand gun

CLEANING OF EQUIPMENT

Remove all excess sealant adjacent to joint and on equipment prior to cure with a rag. Casco Seal Remover is recommended if the sealant has cured, otherwise cured sealant is removed mechanically. On skin, uncured sealant is wiped off with a rag, then wash with soap and water.

FURTHER INFORMATION

MAINTENANCE

We recommend to use Casco® Sanitary Silicone for elastic joints in wet space areas. This product contains a mould retardant, which will protect against mildew attack. 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 or soaps etc. Keep the wet space area as dry as possible by using proper ventilation. The joints should be cleaned with normal household cleaning agents as a part of normal cleaning routines, depending on load of 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 containing chlorine e.g. Chlorine or with a mildew cleaner. If a severe mildew attack is present cut out the damaged area and re-caulk. Avoid cutting through the water sealing membrane beneath.

IMPORTANT CONSIDERATIONS

LIMITATIONS

Light colors as white and light grey of Casco® Sanitary Silicone may get yellow by;
Contact with some materials.
Curing in rooms without windows.
Curing when painting is done with Alkyd paint system.
When there is newly laid hardwood flooring in connecting rooms.
When there is newly varnished or oiled floor in connecting rooms.
If cleaning were done with special cleaning agents.
If overdose of detergent.
In areas with poor ventilation.
In such conditions we recommend to use AquaSeal Våtrumsfog.

Casco® Sanitary Silicone should by no means be used as an adhesive e.g. mirror bonding, only for sealing. The product is not recommended to aquariums, use Casco Glass Silicone instead.
Solvents, especially aromatics like toluene will cause swelling and deterioration of the sealant.
Also petrol and diesel oil have this effect. Strong acids and bases will destroy the sealant.
Due to the risk of dirt pick up around the joint Casco® Sanitary Silicone must not be used to seal connecting and expansion joints between non-porous siliceous materials such as tiles or ceramics in facades.
Greasy plastics like polyethylene, polypropylene as well as Teflon cannot be glued.

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.

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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