

PRODUCT DATA SHEET

Casco[®] Construction Silicone

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



DESCRIPTION

Moisture curing Alkoxy type, highly elastic, low modulus silicone sealant, for sealing of connecting and expansion joints in the building industry.

USES

Good adhesion to most building materials without primer and excellent adhesion to many siliceous materials, e.g. glass, tiles, ceramics, enamel, glazed tiles and clinker.

CHARACTERISTICS / ADVANTAGES

- Primer less adhesion to most materials
- Non-corrosive to metals
- Suitable for alkaline substrates such as concrete, mortar, fibrous cement
- Low odour
- 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

Sealant for facade for interior and exterior application (intended for use in cold climates)

PRODUCT INFORMATION

Composition	Alkoxy silicone	
Packaging	300 ml cartridge	
Colour	Colour range to be defined by local sales organization	
Shelf life	At least 18 months in unopened package	
Storage conditions	Stored in a cool (below 25 °C) dry place in moisture tight cartridge	
Density	Approx. 1020 kg/m ³	(ISO 1183-1)
Volatile organic compound (VOC) content	None	

TECHNICAL INFORMATION

Shore A Hardness	Approx. 24	(ISO 868)
Tensile Strength	0,70 MPa	(ISO 37)
Elongation at Break	300 %	(ISO 37)
Elastic Recovery	25 %	
Service Temperature	-40 °C to +180 °C	
Joint Design	Joint width 5-30 mm	

APPLICATION INFORMATION

Sag Flow	Non sag	
Ambient Air Temperature	+5 °C - +40 °C	
Curing Time	Approx. 2 mm per day the first 24 hours	
Skinning time	Approx. 35 minutes (23°C/50%RH)	(CQP 019-)

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

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.

CLEANING OF EQUIPMENT

Water with a small amount of soap/detergent

Both curing and adhesion is dependent on sufficient amount of moisture. If Casco® Construction Silicone is applied under dry conditions or between watertight materials, extra time or moisture might be necessary to obtain optimum cure and adhesion. See the table for recommendation of pre-treatment on different materials.

METAL

The adhesion is good to uncoated and lacquered aluminium, fresh copper, stainless steel. Iron 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

Casco® Construction Silicone bonds perfectly to glass. Always clean the glass by wiping with ethanol or acetone (avoid contact with coatings e.g. with window frames)

PLASTIC

The adhesion to hard PVC, plasticized PVC^x, polystyrene, ABS, polycarbonate, polyacrylate^x, 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.

FURTHER INFORMATION

TOOLING

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.

HANDLING AND CLEANING

INSTRUCTIONS

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. CascoSeal 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.

CERTIFICATE

Casco® Construction Silicone has CE-certificate. Declaration of Performance (DOP) can be found on our website.

MAINTENANCE

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

LIMITATIONS

Casco® Construction Silicone is not suitable for use on natural stones, such as marble, granite, quartzite, as it can cause staining. Casco® Construction Silicone is not recommended for sealing of aquaria or for long term use under water. Use Casco Glass Silicone instead. Casco® Construction Silicone is not suitable for food contact applications. Casco® Construction Silicone is not suitable for use as a mirror adhesive. The time until complete curing may be extended at lower temperature, lower humidity, and increasing film thickness or by low volume of air exchange. Greasy plastics like polyethylene, PE and polypropylene as well as Teflon cannot be glued. Casco® Construction Silicone must not be used for structural glazing bonding. Incompatible substances like coating materials as paints, varnishes and glazes or organic plasticizer containing rubbers (EPDM, butyl and neoprene) can lead to discoloration or other impairments like loss of adhesion of the sealant.

Materials in direct contact with the applied sealant like cleaning agents and materials in indirect contact like gaseous emissions can damage the sealant in its function or change its appearance. Because of the multitude of these materials, we cannot make a general statement to the compatibility of materials with the sealant. We recommend preliminary tests.

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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