

## PRODUCT DATA SHEET

# Casco® Marin&Teknik

Moisture curing medium to high modulus elastic sealant and a tough adhesive

### DESCRIPTION

Paintable general outdoor adhesive and sealant.  
1-component, solvent-free, paintable joint sealant and outdoor adhesive with a wide adhesion spectrum.

### USES

Especially intended for outdoor and indoor use in boats, cars, caravans and in houses.

### CHARACTERISTICS / ADVANTAGES

- Paintable with most paints
- Excellent weatherability properties
- Absorbs acoustical and mechanical vibrations
- Excellent adhesion to most materials without primer.
- Excellent tooling characteristics
- Environmentally favourable with regard to working and indoor environment as well as waste handling and life

### APPROVALS / CERTIFICATES

EN 15651-1 F EXT-INT CC20HM  
EN 15651-4 INT CC

### PRODUCT INFORMATION

Composition	Silane terminated polymer
Packaging	40 ml tube
Shelf life	18 months from the date of production in unopened package.
Storage conditions	Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +25 °C.
Colour	Color range to be defined by local sales organization.
Density	Approx. 1.48 kg/l (ISO 868)
Solid content by mass	100%
Consistency	Gun grade thixotropic
Volatile organic compound (VOC) content	None

### TECHNICAL INFORMATION

Shore A hardness	Approx. 45 (after 28 days) (ISO 868)
Tensile strength	Approx. 2.0 N/mm <sup>2</sup> (ISO 37)

<b>Secant tensile modulus</b>	Approx. 0.80 N/mm <sup>2</sup> (after 28 days) (23 °C) (ISO 8339)
<b>Tensile strain at break</b>	Approx. 500 % (ISO 37)
<b>Movement capability</b>	± 12.5 % (ISO 9047)
<b>Tear propagation resistance</b>	~13.0 N/mm (ISO 34)
<b>Service temperature</b>	-40 °C to +90 °C
<b>Chemical resistance</b>	Resistant to water, seawater, diluted alkalis, cement grout and water dispersed detergent. Not resistant to alcohols, organic acids, concentrated alkalis and concentrated acids, chlorinated (hydro-carbons) fuel. For detailed information please contact our Technical Service Department.

## APPLICATION INFORMATION

<b>Sag flow</b>	3 mm (20 mm profile, 23 °C) (ISO 7390)
<b>Ambient air temperature</b>	+5 °C to +40 °C, min. 3 °C above dew point temperature
<b>Relative air humidity</b>	30 % to 90 %
<b>Substrate temperature</b>	+5 °C to +40 °C
<b>Curing rate</b>	Approx. 2 mm/24 h (23 °C / 50 % r.h.) (CQP 049-2)
<b>Skinning time</b>	Approx. 60 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

### LIMITATIONS

Casco® Marin&Teknik can be over painted with most conventional facade coating paint systems. However, paints must first be tested to ensure compatibility by carrying out preliminary trials (e.g. according to ISO technical paper:

Paintability and Paint Compatibility of Sealants). The best over-painting results are obtained when the sealant is allowed to fully cure first.

Note: non-flexible paint systems may impair the elasticity of the sealant and lead to cracking of the paint film.

Colour variations may occur due to exposure to chemicals, high temperatures and/or UV-radiation (especially with the colour shade white). However, a change in colour is purely of aesthetic nature and does not adversely influence the technical performance or durability of the product. Before using on natural stone contact our Technical Service. Before using Casco® Marin&Teknik on natural stone, please refer to our Technical Service Department for advice.

Do not use Casco® Marin&Teknik as a glass sealer, on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might bleed oils, plasticizers or solvents that could attack

the sealant.

Do not use Casco® Marin&Teknik to seal joints in and around swimming pools.

Do not use Casco® Marin&Teknik for joints under water pressure or for permanent water immersion.

Do not expose uncured Casco® Marin&Teknik to alcohol containing products as this may interfere with the curing reaction.

## 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

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Paint, cement laitance and other poorly adhering contaminants must be removed. Casco® Marin&Teknik adheres without primers and/or activators.

However, for optimum adhesion and critical, high performance applications, such as on multi-story highly stressed joints, extreme weather exposure buildings, or water immersion, the following priming and/or pre-treatment procedures shall be followed: All metal surfaces that are not mentioned below have to be treated with a very fine abrasive pad and Casco® Primer 21 shall be applied using a clean brush or roller. Before sealing allow a flash-off time of > 30

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minutes (< 8 hours).

### **Porous substrates**

Concrete, aerated concrete and cement-based renders, mortars, brick, and natural stone have to be primed with Casco® Primer 21 applied with a clean brush. Before sealing allow a flash-off time of > 30 minutes (< 8 hours).

For detailed advice, please contact our Technical Service Department.

Note: Primers are adhesion promoters. They are neither a substitute for the correct cleaning of a surface, nor do they improve the strength of the surface significantly.

#### **▪ METAL**

The adhesion to most metals is excellent. Raw aluminium might give adhesion loss after exposure to corrosive environment. Marin&Teknik Fog&Lim does not bond to lead and copper.

#### **▪ WOOD**

The adhesion to dry wood is generally very good

#### **▪ GLASS**

Marin&Teknik Fog&Lim bonds to glass without primer. For glass constructions with high UV-exposure on the bond line, Marin&Teknik Fog&Lim is not recommended.

#### **▪ PLASTICS**

Marin&Teknik Fog&Lim bonds to un-plasticised PVC, polyester, epoxy, polyurethane, melamine, etc. Pre-testing is recommended on acrylic, ABS, polystyrene, polycarbonate and plasticised PVC. The adhesion to polyethylene or polypropylene is low.

#### **▪ POROUS SUBSTRATES**

If the surface strength is good enough, the adhesion of Marin&Teknik Fog&Lim is very good to most porous substrates. For granite marble, natural stones it is recommended to use 3978 Primer 21.

#### **▪ CONCRETE**

The adhesion to fresh or wet concrete is weak. For this application it is recommended to use 3978 Primer 21. It is recommended to make pre-tests.

### **APPLICATION METHOD / TOOLS**

Casco® Marin&Teknik is supplied ready to use.

After the necessary substrate preparation, insert a suitable backing rod to the required depth and apply any primer if necessary. Insert a cartridge or foil pack into the sealant gun and extrude Casco®

Marin&Teknik into the joint making sure that it comes into full contact with the sides of the joint and avoids any

air entrapment. Casco® Marin&Teknik sealant must be firmly tooled against the joint sides to ensure adequate adhesion.

It is recommended to use masking tape where exact joint lines or neat lines are required. Remove the tape within the skin time. Do not use tooling products containing solvents.

After substrate preparation, apply Casco® Marin &Teknik in beads, strips or spots to the bonding surface in intervals of a few centimetres each.

Use hand pressure only to set the element to be bonded into position. If necessary, use adhesive tapes, wedges, or props to hold the assembled elements together during the initial curing hours.

An incorrectly positioned element can easily be unfastened and repositioned during the first few minutes after application.

Optimum bonding will be obtained after the complete curing of Casco® Marin&Teknik, i.e. after 24 to 48 hours at +23 °C for an adhesive thickness between 2 to 3 mm.

### **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 recom-

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mendations, 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](http://www.casco.eu).

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