



A SIKA BRAND

## PRODUCT DATA SHEET

# Casco<sup>®</sup> Multiseal/BYGGFOG

Moisture curing low modulus elastic sealant for indoor and outdoor joints.



### DESCRIPTION

Moisture curing low modulus elastic sealant for indoor and outdoor use. Provides a waterproof seal with good mechanical properties. Very good adhesion to most building materials. Movement capability  $\pm 25\%$ .

### USES

Sealing joints for lot of applications such as, movement and connection joints, window and door frames, pre-cast elements, facade elements etc.

### CHARACTERISTICS / ADVANTAGES

- Phthalate free
- Paintable with most paints
- Excellent tooling characteristics
- Environmentally favourable with regard to working and indoor environment as well as waste handling and life cycle aspects.
- Movement capability  $\pm 25\%$
- Good resistance to weathering and ageing
- Elastic over a wide range of temperatures
- Good adhesion of many construction materials

### SUSTAINABILITY

- Conformity with LEED v4 EQc 2: Low-Emitting Materials
- VOC emission classification of building materials RTS M1
- VOC emission classification GEV-Emicode EC1<sup>PLUS</sup>

### APPROVALS / CERTIFICATES

EN 15651-1:2012

Sealants for exterior and interior application F EXT-INT CC

### PRODUCT INFORMATION

Composition	MS-polymer (Silane terminated polymer)
Packaging	300 ml cartridge, 600 ml sausage in some colors.
Colour	Color range to be defined by local sales organization.
Shelf life	One year for cartridges, 18 months for aluminium sausages.
Storage conditions	Shall be stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +25 °C.
Density	Approx. 1250 kg/m <sup>3</sup> (ISO1183-1)

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Viscosity	Gun-grade thixotropic
Volatile organic compound (VOC) content	None
Solid content	Approx. 100 %
Product declaration	Declaration of Performance (DOP) can be found on our website.

## TECHNICAL INFORMATION

Shore A hardness	Approx. 20 Shore A (after 28 days)	(ISO 868)
Tensile strain at break	Approx. 500 %	(ISO 37)
Elastic recovery	Approx. 70 %	(ISO 37)
Movement capability	±25 %	(ISO 9047)
Service temperature	-40 °C to +90 °C	
Joint design	8-35 mm	

## APPLICATION INFORMATION

Backing material	Use closed cell, polyethylene foam backing rods.	
Sag flow	0 mm (20 mm profile, 50 °C)	(ISO 7390)
Ambient air temperature	+5 °C to +40 °C	
Substrate temperature	+5 °C to +40 °C	
Substrate moisture content	Humidity limits: Minimum 30 % RH	
Curing time	2-3 mm the first 24 h. Approx. 10 mm after 7 days.	
Skimming time	Approx. 60 minutes (23°C/50%RH)	(CQP 019-1)
Tooling time	Approx. 50 minutes (23°C/50% RH)	(CQP 019-2)

## 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

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.

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 smoothed 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® Multiseal/BYGGFOG 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.

See below the recommendation of pre-treatment on different materials.

### ▪ METAL

The adhesion to most metals is excellent. Raw aluminium can give adhesion loss after exposure to corrosive environment. Casco® Multiseal/BYGGFOG does not bond to lead.

### ▪ WOOD

The adhesion to wood is generally good, but Casco Primer 21 is recommended for wet conditions.

### ▪ GLASS

Casco® Multiseal/BYGGFOG bonds to glass without primer. For glass constructions with high UV-exposure on the bond line, Casco® Multiseal/BYGGFOG is not recommended.

### ▪ PLASTICS

Casco® Multiseal/BYGGFOG bonds to un-plasticised PVC, polyester, epoxy roofing sheet or where you have been painting with epoxy primer and Carpets made out of polyurethane etc.

Pre-testing is recommended on acrylic, ABS, styrene, polycarbonate and plasticised PVC. The adhesion to polyethylene, polypropylene and fluorinated plastics is low.

### ▪ POROUS SUBSTRATES

Concrete and other alkaline substrates used outdoors and in wet surroundings, must be primed with Casco Primer 21. Other porous materials might need priming if the surface is weak. Use Casco Primer 21 in this case. Granite and marble does not need primer. It is recommended to make pre-tests.

## 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.

## CLEANING OF EQUIPMENT

Remove all excess sealant adjacent to joint and on equipment prior to cure with Casco Seal Remover. Cured sealant can only be removed mechanically. On skin, uncured sealant is wiped off with a rag, then wash with soap and water.

## FURTHER INFORMATION

### PAINTABILITY

It is not recommended to over-paint an elastic sealant, since it reduces the joint movement capability. Casco® Multiseal/BYGGFOG is however compatible with most dispersion based paints. Pre-testing is always recommended. The drying time for alkyd- and oil based paints might be extended.

### 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.

## IMPORTANT CONSIDERATIONS

### LIMITATIONS

Casco® Multiseal/BYGGFOG is not recommended for: Surfaces exposed to mechanical wear, e.g. pedestrian or other traffic.

On natural stone.

Structural or butt glazing, or other applications where UV-light can affect the adhesion.

Constant water immersion.

Joints less than 8 mm in width or depth.

Swimming pools and the like with water containing chlorine based disinfectants.

Plasticizer migration might occur on uncoated sensitive wallpaper, as for all plasticizer containing products.

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## 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](http://www.casco.eu).

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