

PRODUCT DATA SHEET

SikaSeal[®]-170

Silicone sealant for general and sanitary applications

PRODUCT DESCRIPTION

SikaSeal[®]-170 is an acetoxy-curing silicone sealant. It is used for sealing joints in sanitary facilities and other areas of residential homes.

USES

The Product is used for sealing the following types of joints:

- Connection joints
- Expansion joints

The Product is used for the following areas:

- Wet rooms
- Sanitary facilities
- Domestic kitchens
- Around bathtubs, showers, and sinks

The Product is also used for sealing joints in other areas of residential homes.

The Product is used on many construction materials and substrates such as:

- Aluminium
- Glass
- Tiles

For information about unsuitable substrates or substrates of limited suitability, refer to section Substrate quality.

The Product is used for interior and exterior applications.

The Product is used in warm and cold climates.

Please note:

The Product must not be used for joints with direct food contact.

CHARACTERISTICS / ADVANTAGES

- Very good resistance to mold growth
- Good resistance to UV exposure
- Good resistance to weathering
- Non-sag
- Long-term elasticity
- Temperature resistance from -40 °C to +100 °C
- Solvent-free (acc. to TRGS 610)
- Low VOC emissions
- Movement capability of $\pm 20\%$ (ISO 9047)
- Very good adhesion without a primer to many construction materials

ENVIRONMENTAL INFORMATION

- VOC emission classification GEV Emission EC1

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 15651-1:2012 Sealants for non-structural use in joints in buildings and pedestrian walkways — Part 1: Sealants for facade elements
- CE marking and declaration of performance based on EN 15651-3:2012 Sealants for non-structural use in joints in buildings and pedestrian walkways — Part 3: Sealants for sanitary joints

PRODUCT INFORMATION

Product Declaration

EN 15651-1:2012

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EN 15651-3:2012

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Chemical Base

Acetoxy silicone

Product Data Sheet

SikaSeal[®]-170

February 2024, Version 01.01

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Packaging	300 ml cartridges Refer to the current price list for available packaging variations.
Shelf Life	18 months from 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. Refer to the current Safety Data Sheet for information on safe handling and storage.
Colour	Available in a range of colours, refer to the price list for further information.
Density	1.0 kg/l (ISO 1183-1)

TECHNICAL INFORMATION

Shore A Hardness	20 (after 28 days)	(ISO 868)
Tensile Strength	1.8 N/mm ²	(ISO 8339)
Secant Tensile Modulus	100 % elongation at +23 °C 0.35 N/mm ²	(ISO 8339)
Elongation at break	550 %	(ISO 37)
Movement Capability	± 20 %	(ISO 9047)
Elastic Recovery	> 90 %	(ISO 7389)
Tear Propagation Resistance	2.6 N/mm	(ISO 34-2)
Service Temperature	Maximum +100 °C Minimum -40 °C	
Joint Design	The joint dimensions must be designed to suit the movement capability of the sealant. For joint widths more than 10 mm and less than 20 mm, the minimum joint depth is 10 mm. For larger joints, contact Sika Technical Services for additional information.	

APPLICATION INFORMATION

Sag Flow	20 mm profile at +23 °C < 1 mm	(ISO 7390)
Product Temperature	Maximum +40 °C Minimum +5 °C	
Ambient Air Temperature	Maximum +40 °C Minimum +5 °C	
Substrate Temperature	Maximum +40 °C Minimum +5 °C	
	Beware of condensation. Substrate temperature during application must be at least +3 °C above dew point.	
Backing Material	Use closed cell, polyethylene foam backing rod or backing tape.	
Curing Rate	+23 °C at 50 % r.h. 3 mm per 24 hours	(CQP049-2)
Skin Time	+23 °C at 50 % r.h. 25 minutes	(CQP019-1)

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

Pretreatment Chart Constructive Sealants and Adhesives

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The Product must not be used on the following substrates:

- Pre-stressed polyacrylate or polycarbonate
- Bitumen, natural rubber or EPDM
- Metals such as copper, brass, lead or mirror silver.

On the following substrate, the Product may exhibit poor adhesion:

- Concrete, aerated concrete and cement based renders, mortars and bricks.
- Polyethylene (PE)
- Polypropylene (PP)
- PTFE (Teflon®)

Perform a preliminary adhesion test on the above substrates before full application.

Contact Sika Technical Services for additional information.

SUBSTRATE PREPARATION

Inadequate surface preparation

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

Substrate testing

Note: Adhesion tests on project specific substrates must be performed and procedures agreed with all parties before full project application. For more detailed advice and instructions contact Sika Technical Services.

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, grease, cement laitance, old sealants and poorly bonded coatings which could affect adhesion of the sealant.

The substrate must be of sufficient strength to cope with the stresses induced by the sealant during movement.

1. Use techniques such as wire brushing, grinding, grit blasting or other suitable mechanical tools to remove all weak substrate material.
2. Repair all damaged joint edges with suitable Sika repair products.
3. Completely remove all dust, loose and friable material from all surfaces before application of the sealant. If tested or supported by experience, the Product can be used without primers or activators on many substrates.

Carry out the following priming or pre-treatment procedures to ensure optimum adhesion and joint durability, or if you use the Product for high-performance applications such as joints on multi-storey buildings, highly stressed joints, or joints exposed to extreme weather.

NON-POROUS SUBSTRATES

Aluminium, anodised aluminium, stainless steel, galvanised steel, powder coated metals, glazed tiles, or other metals, such as copper, brass and titanium-zinc.

1. Lightly roughen the surface with a fine abrasive pad.
2. Clean and pre-treat using Sika® Aktivator-205 with a clean cloth. Wait until the flash off time has been achieved.
3. Apply Sika® Primer-3 N by brush.

PVC substrates.

1. Lightly roughen the surface with a fine abrasive pad.
2. Clean and pre-treat using Sika® Aktivator-205 with a clean cloth. Wait until the flash off time has been achieved.
3. Clean and pre-treat using Sika® Primer-215 applied with a brush.

Glass substrates

1. Clean and pre-treat using Sika® Cleaner P applied with a clean cloth and wait until the flash off time has been achieved.

APPLICATION

IMPORTANT

Strictly follow installation procedures

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

IMPORTANT

Absorbency of natural stone substrates

Staining from plasticiser migration may occur when used on natural stone such as granite, marble or limestone substrates.

1. Carry out preliminary trials before full project application.
2. Contact Sika Technical Services for further advice.

IMPORTANT

Application in confined spaces

Atmospheric moisture is required for the Product to cure.

1. Do not use in a totally confined space.

Preconditions

The flash-off time of the primer has been achieved.

1. Apply masking tape where neat or exact joint lines are required.
2. After the required substrate preparation, insert a backing rod to the required depth.
3. Prime the joint surfaces as recommended in substrate preparation.
Note: Avoid excessive application of primer to avoid causing puddles at the base of the joint.
4. Open the seal on the top of the cartridge, or open the end of the foil pack. Fit the nozzle and cut it to the desired size. Insert the product into the caulking gun.
5. Apply the Product into the joint ensuring that it comes into full contact with the sides of the joint and avoiding any air entrapment.
6. **IMPORTANT** Do not use tooling products containing solvents. As soon as possible after application, tool the sealant firmly against the joint sides to ensure adequate adhesion and a smooth finish. Use a compatible tooling agent such as Sika® Tooling Agent N to smooth the joint surface.
7. Remove the tape within the skinning time of the Product after finishing.

Colour variation

Note: Colour variations may occur due to the exposure in service to chemicals, high temperatures 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.

CLEANING OF TOOLS

Clean all tools and application equipment immediately after use with Sika® Remover-208. Once cured, hardened material can only be removed mechanically. For cleaning skin use Sika® Cleaning Wipes-100.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika 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.

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Product Data Sheet

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February 2024, Version 01.01
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SikaSeal-170-en-IE-(02-2024)-1-1.pdf