

Elastic joint sealant

**PCI Silcofug® E**

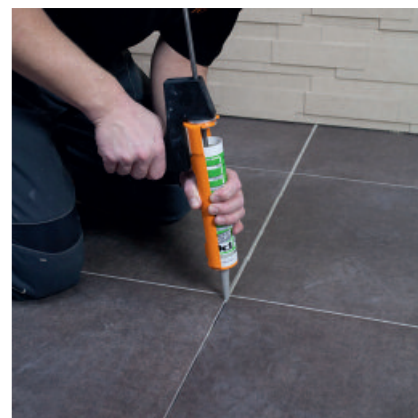
for indoor and outdoor use

**PCI**<sup>®</sup>  
Für Bau-Profis



### Fields of application

- For indoor and outdoor use.
- For walls and floors.
- For sealing corner joints, movement joints and connection joints in sanitary areas, public swimming pools including pool and pool surrounds, on balconies and terraces.
- For sealing joints between glass, aluminium, wood, enamel, ceramic, rigid PVC and sanitary acrylic.
- For sealing glazing rebates at window frames made of wood, anodized and non-anodized aluminium (cf. DIN 18545 part 1-3 and IVD leaflet no. 10 – Glass sealing of wooden windows with joint sealants).
- For sealing butt joints at figured glass, corrugated glass, glass blocks and elements.



PCI Silcofug E is resistant to commercial household cleaners and disinfectants; the closed joint can be easily cleaned.

### Features and benefits

- Elastic, capable of absorbing joint movement up to 20% (cf. IVD leaflet no. 2 - Classification of joint sealants).
- Resistant to weather conditions and UV radiation, ideal for outdoor application, temperature resistant up to +165°C.
- Contains fungicides, prevents fungal decay and mildew growth on the joint sealant.
- Resistant to commercial household cleaners and disinfectants, the joint can be easily cleaned.
- Very low emissions PLUS, GEV-EMICODE EC 1 PLUS.



<b>CE</b>	
0757.0767	
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14 DE9119/03	
<b>PCI Silcofug E (DE0119/03)</b> EN 15651-1:2012 EN 15651-2:2012 EN 15651-3:2012	
Sealants for non-structural use in joints in buildings and pedestrian walkways	
EN 15651-1 Type F EXT-INT CC Sealants for facade elements, Class 20 LM Conditioning: Method A Substrate: Mortar M1 without Primer	
EN 15651-2 Type G Sealants for glazing, Class 20 LM CC Conditioning: Method A Substrate: Glass without Primer	
EN 15651-3 Type S Sealants for sanitary joints, Class XS1 Conditioning: Method A Substrate: glazed ceramic (EN 14411)	
Reaction to fire	Class E
Release of chemicals dangerous to the environment and health	Evaluated
Resistance to flow	≤ 3 mm
Loss of volume	≤ 10 %
Tensile properties at maintained extension after immersion in water at 23 °C	Pass
Microbiological growth	0
Adhesion/cohesion properties after exposure to heat, water and artificial light	Pass
Elastic recovery	≥ 60 %
Tensile properties at -30 °C	≤ 0.9 MPa
Tensile properties at maintained extension at -30 °C	Pass
Durability	Pass

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## Technical data

### Material

Material base	silicone rubber, acid curing (acetoxo system)
Components	single component
Density	approx. 1.0 g/cm <sup>3</sup>
Shelf life	min. 24 months; store dry, no permanent storage over +30°C
Packaging size	310 ml cartridges with screw-on nozzle. (One carton contains 12 cartridges.) 400 ml sausage (One carton contains 15 sausages).

### Application

Consumption		
Joint dimension		
- 10 x 10 mm	approx. 100 ml/running metre	
- 5 x 5 mm	approx. 25 ml/running metre	
<i>Consumption: joint width (mm) x joint depth (mm) = ml/running metre. In case of triangle joints consumption is reduced to half.</i>		
Coverage		
Joint dimension	310 ml cartridge covers	400 ml sausage covers
- 10 x 10 mm	approx. 3.1 running metres	approx. 4.0 running metres
- 5 x 5 mm	approx. 12.4 running metres	approx. 16.0 running metres
Joint width	up to 30 mm	
Processing temperature	+5°C to +35°C (substrate temperature)	
Time until skin forms*	approx. 10 - 15 minutes	
Curing speed*	approx. 2 mm/day	
Temperature resistance	-40°C to +165°C, and beyond for a short time	
Total elongation allowed	max. 20% of joint width	
Shore A hardness	approx. 25	
Tensile modulus	approx. 0.6 MPa	
Volume shrinkage	approx. 6%	
Adhesion without primer	to glass, ceramic, enamel, melamine resin, polyester, brick lining, non-vitrified pipes, sanitary acrylic, linoleum	
Adhesion with PCI Elastoprimer 150	to Hostalit Z, glaze-coated open-pored wood, anodized and non-anodized aluminium, stainless steel, chrome	
Adhesion with PCI Elastoprimer 165	to Hostalit Z, plasticized PVC, rigid PVC, PVC windows, rough-ground polyester	

\*At +23°C and 50% relative humidity. Higher temperatures and/or higher humidity reduce the skin-forming time and increase the curing speed, lower temperatures and/or lower humidity increase the skin-forming time and reduce the curing speed.

## Packaging size and colours

Colours	310 ml cartridge stock no.	400 ml sausage stock no.
01 Brilliant white	2981/7	2982/4
02 Bahama beige	2692/2	
03 Caramel	2750/9	
05 Midbrown	2754/7	
11 Jasmine	2693/9	
12 Anemone	2747/9	
16 Silver grey	2711/0	2825/4
18 Manhattan	2694/6	
19 Basalt	2691/5	
21 Grey	2696/0	2868/1
22 Sand grey	2700/4	2870/4
23 Light grey	2697/7	

## Packaging size and colours

31 Cement grey	2698/4	2872/8
40 Black	2690/8	
41 Dark brown	6265/4	
43 Pergamon	2701/1	
44 Topas	2776/9	
47 Anthracite	2785/1	
49 Light brown	2695/3	
50 Red brown	2702/8	
51 Intensive brown	2703/5	
52 Beige brown	2704/2	
53 Ochre	2705/9	
Transparent	2209/2	

*Subject to slight variations in colour due to print.*



01 Brilliant white



02 Bahama beige



03 Caramel



05 Midbrown



11 Jasmine



12 Anemone



16 Silver grey



18 Manhattan



19 Basalt



21 Grey



22 Sand grey



23 Light grey



31 Cement grey



40 Black



41 Dark brown



43 Pergamon



44 Topas



47 Anthracite



49 Light brown



50 Red brown



51 Intensive brown



52 Beige brown



53 Ochre



Transparent

## Requirements

- The joint width must be well designed that the admissible total movement of the joint sealant of 20% is not exceeded due to movements of the adjacent structural elements.
- The following joint dimensions must be considered for movement joints – related to the joint width:

Width	Depth
up to 10 mm	min. 6 mm
10 mm	8 - 10 mm
15 mm	8 - 12 mm
20 mm	10 - 14 mm
25 mm	12 - 18 mm

- The width and depth of the joints should be at least 10 mm for joints outdoors.
- For further information on joint dimensions see also IVD leaflet no. 3 – Constructive layout and sealing of joints in sanitary and wet rooms.

## Preparation of substrate

The joint sides must be dry, structurally sound and free from dust and other contamination. Remove oil stains and grease from non-absorbent substrates with PCI Univerdüner universal thinner.

Fill deep joints beforehand with non-rotting DIN-Polyband (closed-cell polyethylene backer rod). Be careful not to damage the backer rod during the application. A three-sided adhesion of

the sealant to the bottom of the joint must be avoided! Substances containing bitumen or tar are not allowed.

## Application procedure of PCI Silcofug E

All regular hand-operated and air-operated caulking guns (e.g. from Karl Dahm) are suitable for the application of PCI Silcofug E. Special caulking guns with plunger rod are to be used for products in pillow bags.

### Application of sealant

- 1 Cut off tip of threaded nipple (straight cut), screw on nozzle and cut off at an angle corresponding to the joint width. Fit cartridge into the caulking gun.
- 2 Gun PCI Silcofug E into the joint using positive pressure to ensure full contact and adhesion. Tool to a bevel in corner joints.

3 Smooth joint sealant before a skin forms using a suitable joint-shaping tool moistened with PCI Glättmittel smoothing agent. A skin forms within a few minutes. Work may be interrupted because new PCI Silcofug E perfectly bonds to the material which has already cured.

## Please note

- Paint does not bond to PCI Silcofug E (cf. IVD leaflet no. 12 – Overpaintability of movement-compensating joint sealants in building construction).
- PCI Silcofug E is not suitable for floor joints subject to heavy mechanical loads.
- Use PCI Carraferm for natural stones.
- The elastic sealing of movement joints and connection joints with PCI Silcofug E is not a substitute for required sealing measures in the substrate structure.
- See technical data sheet no. 201 - PCI Elastoprimer for details on the application of PCI Elastoprimer 150 and 165.
- We recommend to test adhesion to and compatibility with lacquered and plastic substrates beforehand.
- Staining and bonding problems may occur in contact with mastic asphalt screeds.
- PCI Silcofug E might discolour when using cleaning agents and disinfectants which separate iodine.
- Minor colour variations are possible, we therefore recommend to use the same batch number for the same project.
- Opened cartridges can be stored for several days if the nozzle is plugged with some sealant. Remove the cured sealant from the nozzle before any further application.
- Although PCI Silcofug E contains fungicides, the joints should be cleaned with appropriate household cleaners and/or disinfectants in sanitary areas to prevent mould and mildew growth.
- Suitable tools are available e.g. from Karl Dahm Ludwigstr. 5 83358 Seebruck/Germany.
- Remove sealant spills with PCI Univerdüner universal thinner while the material is still uncured. Cured sealant can only be removed by mechanical scraping.

## Declaration of Performance

The Declaration of Performance can be downloaded as pdf file under [www.pci-augsburg.eu/dop](http://www.pci-augsburg.eu/dop).

## Information on the safe use

Contains biocide 4,5-dichloro-2-octyl-2H-isothiazol-3-one, 2-octyl-2H-isothiazol-3-one.

May cause an allergic reaction.

Keep out of reach of children. Wear

protective gloves. Protect eyes if there is risk from splashing. If in contact with eyes thoroughly rinse with water. If the eye irritation does not ease off within a few minutes seek medical advice.

If medical advice is needed, have product container or label at hand.

*For further information: see PCI Material Safety Data Sheet.*

## Disposal of emptied PCI sales packaging

PCI participates in an area-wide waste disposal system for sales packaging completely emptied. DSD – Duales System Deutschland (Dual System Germany, contract number 1357509) is

our partner for waste disposal. PCI sales packaging completely emptied can be disposed of via DSD in accordance with the symbol printed on the packaging.

## Services for architects and designers

Consultations at the workplace, supplementary information, testing certificates and sample descriptions can

be requested from professional advisors and at the company headquarters.



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