

Silicone joint sealant

PCI Carraferm[®]

for natural stones



Fields of application

- For indoor and outdoor use.
- For walls and floors.
- For stain-free sealing of construction joints and movement joints between materials made of natural stone such as marble, Solnhofen stone, travertine, granite, etc.
- For stain-free sealing of construction joints and movement joints between

materials made of natural stone and concrete, glass, wood, metal, ceramic, sanitary acrylic, PVC and other synthetic material.

- For all living areas, bathrooms, showers, toilet and kitchen; for balconies and terraces.
- PCI Carraferm transparent is well suited to fix bathroom mirrors.

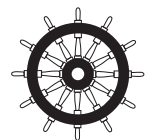


The use of PCI Carraferm prevents natural stones from staining in edge areas.

Features and benefits

- Prevents staining in edge areas, ideal to seal construction joints and movement joints in natural stone sensitive to staining.

- Colours match PCI Carrafug joint grout.



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See date of manufacture on packaging



0757.0767

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14
DE0120/02

PCI Carraferm (DE0120/02)
EN 15651-3:2012

Non-structural sealants for sanitary joints

Class XS3

Conditioning: Method A
Substrate: Glass
EN 15651-3 Typ S

Reaction to fire	Class E
Resistance to flow	≤ 3 mm
Loss of volume	≤ 20 %
Tensile properties at maintained extension after immersion in water at 23 °C	Pass
Microbiological growth	3
Durability	Pass

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Technical data

Material

Material base	silicone natural rubber, neutral curing system (alkoxy system)
Components	single component
Density	approx. 1 g/cm ³
Shelf life	min. 9 months; store in a dry place, no permanent storage over +30°C
Packaging size	310 ml cartridge with screw-on nozzle. One box includes 12 cartridges.

Application

Consumption	
Joint dimension	
- 10 x 10 mm	approx. 100 ml/rm
- 5 x 5 mm	approx. 25 ml/rm
<i>Consumption to be calculated according to the formula: joint width (mm) x joint depth (mm) = material requirement in ml per running metre of joint. The amount is reduced by half in case of triangular joints.</i>	
Coverage	
Joint dimension	
- 10 x 10 mm	310 ml PCI Carraferm cover approx. approx. 3 running metres
- 5 x 5 mm	approx. 12 running metres
Working temperature	+5°C to +35°C (substrate temperature)
Time to form a skin*	approx. 20 minutes
Curing speed*	approx. 2 mm/day
Temperature resistance	-40°C to +165°C, and beyond for a short time
Total elongation admissible	max. 25% of joint width
Hardness Shore A	approx. 20
Tensile modulus	approx. 0.5 MPa
Shrinkage of volume	approx. 4%
Adhesion without priming	to many absorbent and non-absorbent substrates
Adhesion with PCI Elastoprimer 110	to acrylic glass, concrete, fibre cement, untreated wood
Adhesion with PCI Elastoprimer 150	to marble coverings in wet areas, rigid PVC

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

Requirements

- The joint width must be well designed that the admissible movement of the joint sealant of 25% between the adjacent construction units is not exceeded.

Width	Depth
up to 10 mm	6 - 10 mm
10 mm	8 - 10 mm
20 mm	10 - 14 mm

- The following joint dimensions have to be considered for movement joints - related to the joint width:

- Width and depth of the joints should be at least 10 mm for outdoor application.

- 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 of dust and dirt. Traces of rust must be removed from metal. Deep joints must be backfilled with non-rotting material such as DIN-Polyband (polyethylene closed cell backer rod). Do not damage the backfiller during the installation. The joint sealant must be prevented from adhering to the bottom of the joint (three-sided adhesion). Never use bituminous or tar-impregnated backer rods.

Priming

Using a brush, apply PCI Elastoprimer 110 or 150 to the joint sides if necessary, a cloth soaked in primer can also be used as an alternative. Allow the primer to evaporate.

Evaporation time: approx. 50 to 120 minutes for PCI Elastoprimer 110, approx. 45 - 120 minutes for PCI Elastoprimer 150.

Packaging size and colours

Packaging size	310 ml cartridges stock no.
19 Basalt	2971/8
22 Sand grey	2951/0
25 Carrawhite	2985/5
26 Pearl grey	2950/3
27 Jurabeige	2949/7
31 Cement grey	2987/9
47 Anthracite	2952/7
Transparent	2988/6

Slight variations in colour may be possible due to print.



Transparent



19_Basalt



22_Sand grey



25_Carrawhite



26_Pearl grey



27_Jurabeige



31_Cement grey



47_Anthracite

Application procedure of PCI Carraferm

All usual caulking guns (hand-operated and/or compressed-air) are suitable.

Applying joint sealant

- 1 Cut off the cap of the threaded nipple, screw on nozzle and cut off the tip at an angle corresponding to the joint width.
- 2 Gun PCI Carraferm into the joint using positive pressure, form a triangle bevel in corner joints.
- 3 Smooth sealant with a suitable tool moistened with PCI smoothing agent

before a skin forms. It takes a few minutes until a skin forms. PCI Carraferm can be applied in sections as it perfectly adheres to material which has already cured.

Please note

- Paint does not bond to PCI Carraferm (see IVD leaflet no. 12 - Overpaintability of movement-compensating joint sealants in building construction).
- Priming is necessary on marble coverings exposed to extreme wetness (i.e. public baths). Priming is not necessary on granite and marble not being exposed to extreme wetness. Please see PCI primer chart.
- The smoothing agent must be removed from the surface immediately after smoothing to prevent contamination on the natural stone surface.
- An interaction with the sealant may cause dark stains on oak or veneered pieces of wood.
- We recommend to test adhesion to and compatibility with lacquered and plastic substrates.
- Minor colour variations are possible, we therefore recommend to use the same batch number for the same project.
- Open cartridges can be stored for several days if the nozzle is plugged with some sealant. Remove the vulcanized plug prior to further application.
- Suitable tools are available e.g. from Karl Dahm, Ludwigstr. 5, D-83358 Seebruck.
- Sealant spills must be removed with PCI Univerdünner universal thinner while the material is still uncured. Once cured, material can only be cleaned by mechanical scraping.

Declaration of Performance

The Declaration of Performance can be downloaded on the Internet under

www.pci-augsburg.eu/produkte/leistungserklaerung.

Information on the safe use

Small amounts of methanol evaporate during the application. Avoid uncured

sealant to get in contact with eyes.

For further information: see PCI Material Safety Data Sheet.



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zertifiziertes Qualitätsmanagementsystem

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