

Silicone joint sealant

# PCI Carraferm<sup>®</sup>

for natural stones

**225**

## FIELDS OF APPLICATION

- For indoor and outdoor use.
- For walls and floors.
- For stain-free sealing of construction and movement joints between natural stones such as marble, Solnhofen stone, travertine, granite, etc.
- For stain-free sealing of construction and movement joints between natural stone and concrete, plaster/render, glass, wood, metal, ceramic, sanitary acrylic, PVC and other synthetic material.
- For all living areas, bathrooms, showers, toilet and kitchen; for balconies and terraces.



Prevents discolouration of edge areas with natural stone when using PCI Carraferm.

## FEATURES AND BENEFITS

- **Prevents discolouration of edge areas**, ideal to seal construction and movement joints between natural stones sensitive to staining.
- **Colours match the joint grout PCI Carrafug.**



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## TECHNICAL DATA

### MATERIAL

Material base	silicone rubber, alcohol curing system
Components	1 part
Labelling for	
- Regulation for hazardous goods on roads	non hazardous
- Regulation for hazardous substances	no labelling requirement for this product
<i>For further information refer to Health and Safety.</i>	
Packaging	310 ml cartridge with screw-on nozzle. One carton includes 12 cartridges.
Shelf life	min. 9 months when stored in dry conditions, no permanent storage over +30°C.
Colours	19 Basalt 22 Sand Grey 25 Carrawhite 26 Pearl Grey 27 Jurabeige 47 Anthracite Transparent

### APPLICATION

Consumption	joint dimensions	
	10 x 10 mm	100 ml/rm
	5 x 5 mm	25 ml/rm
The consumption can be calculated according to the formula: joint width (mm) x joint depth (mm) = material requirement in ml per running metre of joint. In case of triangular joints the amount is reduced by half.		
Coverage	joint dimension	310 ml of PCI Carraferm are sufficient for approx.
	10 x 10 mm	3 rm
	5 x 5 mm	12 rm
Priming		
- with PCI Elastoprimer 150	on marble coverings in wet areas, PVC	
- with PCI Elastoprimer 135	on plexiglass, concrete, fibre cement, untreated wood, clinker a.o.	
In case of joints in open areas the width and depth should be at least 10 mm.		
Working temperature	+5°C to +35°C (substrate temperature)	
Time of skin formation*	approx. 20 minutes	
Curing speed*	approx. 1 mm/day	
Dependable elongation	up to 20% of joint width	
Temperature resistance	-40°C to +165°C, and beyond for a short time	
Hardness Shore A	approx. 20	

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

## REQUIREMENTS

- The joint width should be designed not to be able to change by more than 20% (expansion, compression) as a result of movement of the adjacent structural components. For movement joints the following joint depths must be observed in relation to the joint width:

Width	Depth
up to 10 mm	same as width, however at least 6 mm
10 mm	8 to 10 mm
20 mm	10 to 14 mm

## PREPARATION OF SUBSTRATE

- The joint sides must be dry, sound and free of dust and dirt. Traces of rust must be removed from metal. Deep joints should be backfilled with non-rotting material such as DIN-Polyband (polyethylene closed cell backer rod) which must not be damaged 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

Apply PCI Elastoprimer 150 and/or PCI Elastoprimer 135 to the sides of the joint by brush if necessary (PCI Elastoprimer 150 can also be applied by a cloth soaked in primer). Allow the primer to evaporate.

Evaporation time: approx. 10 to 20 minutes for PCI Elastoprimer 150; approx. 50 to 120 minutes for PCI Elastoprimer 135.

## APPLICATION PROCEDURE

- All usual hand-operated and/or compressed-air caulking guns (e.g. available from Kreuzpointner or Vaupel) are suitable.

### Application of the 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, in corner joints form a triangle bevel.
- 3 Before a skin forms joint sealant should be tooled smooth with a suitable tool moistened with PCI smoothing agent. A skin forms within a few minutes. PCI Carraferm can be applied in sections as it perfectly adheres to material which has already hardened.

## PLEASE NOTE

- 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.
- To prevent contamination on the surface of natural stone the smoothing agent should be removed from the surface immediately after smoothing.
- Paints do not adhere to PCI Carraferm.
- An interaction with the sealant may cause dark discolouration on oak or veneered pieces of wood.
- It is recommended to test adhesion and compatibility properties due to the variety of varnishes available on the market.
- An adhesion and compatibility test is recommended on plastic substrates.
- Open cartridges can be stored for several days if the open nozzle is plugged with some sealant. Remove the vulcanized plug prior to further application.

## HEALTH AND SAFETY

Small amounts of methanol evaporate during the application. Avoid uncured sealant to get in contact with eyes.

*For further information refer to the PCI Material Safety Data Sheet.*

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Für Bau-Profis



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