

PCI CARRAFERM[®]

Silicone Joint Sealant for natural stones

Areas 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 stones and wood, metal, PVC, ceramic, glass and other synthetic material.
- For all living areas, bathrooms, showers, toilet and kitchen; for balconies and terraces.



Features and benefits

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

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Technical data

Material

Material base	silicone rubber, alcohol curing system
Components	1 part
Colours	19 Basalt 22 Sand Grey 25 Carrawhite 26 Pearl Grey 27 Jurabeige 47 Anthracite Transparent
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.
Storage	open cartridges can be stored for several days if the open nozzle is plugged with some sealant. Remove the vulcanized plug before further application.

Application

Consumption and coverage	Consumption	Coverage – 310 ml of PCI Carraferm are sufficient for approx.
Joint dimensions*		
10 x 10 mm	100 ml / rm	3 rm
5 x 5 mm	25 ml / rm	12 rm
Priming	on marble coverings in wet areas, PVC	
With PCI Elastoprimer 150	on plexiglass, concrete, fibre cement, untreated wood, clinker a.o.	
With PCI Elastoprimer 135		
Working temperature	+5°C to +35°C (substrate temperature)	
Time of skin formation**	approx. 20 minutes	
Curing speed*	approx. 1 mm/day	
Dependable elongation	upto 20% of joint width	
Temperature resistance	-40°C to +165°C and beyond for a short time	
Hardness Shore A	approx. 20	

* In case of joints in open areas the width and depth should be at least 10mm

** 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
10 mm	6-10 mm
10 mm	8-10 mm
20 mm	10-14 mm

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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 (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

- Cut off the cap of the threaded nipple, screw on nozzle and cut off the tip at an angle corresponding to the joint width.
- Gun PCI Carraferm into the joint using positive pressure in corner joints from a triangle level.
- 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 before further application.

Health and safety

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

For further information refer to the Material Safety Data Sheet.

02/2009 BASF_CC-UAE

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