

Silcoferm® S

multi-purpose joint
sealant for interior and exterior use
Silicone joint sealant

USES

- For interior and exterior use. for walls and floors.
- Sealing of corner, construction and movement joints.
- Between construction units and materials such as concrete, plaster, brickwork, metal, glass, wood, ceramic, PVC and other plastics.
- Between construction units and glazed tiles in bathroom, shower and toilet, on sinks, ovens and kitchen worktops, on doors, windows and built-in elements in domestic areas.
- Between window frames, door frames, shutters and concrete, render or ceramic.
- On sheet metal flashings and window ledges or gutters at balconies and flat roofs.
- Between facade elements on windows and doors made of aluminium, wood, PVC and Hostalit Z.

USER BENEFITS

- Self-adhesive, unprimed adhesion to nearly all absorbent and non-absorbent substrates.
- Elastic, capable of absorbing movements up to 25% of joint width.
- Waterproof, prevents the penetration of water into the joint.
- Resistant to temperatures between -40°C to +165°C, suitable for underfloor heating systems and joints exposed to direct sunlight.
- Resistant to weathering and UV radiation, therefore ideal for exterior application.
- Resistant to customary household cleaners and disinfectants, joints can be cleaned easily.
- Odourless curing, therefore ideal for application in closed rooms.
- Contains fungicides, prevents mould and mildew growth.
- Approx. 10 - 20 minutes until formation of skin. Odourless curing of PCI-Silcoferm S.

TECHNICAL DATA**Material**

Material base	Silicone rubber, alcohol curing system
Components 1-part	Density approx. 1.0 g/cm
Labelling for Regulation for hazardous goods on roads Regulation for flammable fluids Regulation for hazardous substances For further information refer to paragraph Safety .	nonhazardous non flammable no labelling requirement for this roduct
Shelf life	9 months if stored in a cool and dry location
Packaging	310 ml cartridges with screw-on nozzles One carton contains 12 cartridges.

APPLICATION

Joint dimension	Consumption 10 x 10 mm approx. 100 ml/m 5x 5 mm approx. 25 ml/m
Consumption: joint width (mm) x joint depth (mm) = ml/m. In case of triangle joints consumption is reduced to half.	
Yield Joint dimension 10 x 10 mm 5 x 5 mm	310 ml PCI-Silcoferm S are sufficient for for : approx. 3m approx. 12m
Working temperature	+5°C to +35°C (substrate temperature)
Time of skin forming	* approx. 10-20 minutes
Curing time* - tack-free after - forms vulcanized layer of approx. 1 mm	20 minutes at the earliest after a few hours
Curing speed* approx. 1 mm/day	
Temperature resistance	-40°C to +165°C, and beyond for a short time
Dependable elongation	up to 25% of joint width
Shore A hardness	approx. 20
Adhesion	without primer to almost all absorbent and non-absorbent substrates

* At +23°C and 50 % relative humidity. Higher temperatures and/or lower 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.

Elastic sealing of connection joints at a chimney between concrete and stainless steel flashing.

Elastic sealing of corner and connection joints at the tile



The Chemical Company

covering of a kitchen worktop.

REQUIREMENTS

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

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

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

For joints outdoors the width and depth of the joints should be at least 10 mm.

SUBSTRATE

The joint sides must be dry, sound and free from dust and other

PREPARATION

contamination. Remove oil stains and grease from non-absorbent substrates with PCI-Univerdünnner. Remove rust carefully from iron substrates and prime with PCI-Elastoprimer 220. Fill deep joints with closed-cell polyethylene backer rod. The backer rod must not be damaged during the application. Adhesion of the sealant to the bottom of the joint must be avoided. Do not use backer rods containing bitumen or tar.

APPLICATION

PCI-Silcoferm S can be applied by conventional hand or air-operated caulking guns (e.g. available from Kreuzpointer or Vaupel). Cut off tip of threaded nipple, screw on nozzle and cut off the tip at an angle corresponding to the joint width.

Gun PCI-Silcoferm S into the joint using positive pressure to ensure full contact and adhesion. Tool to a bevel in corner joints. Smooth joint sealant before a skin forms using a suitable joint-shaping tool moistened with soapy water or PCI-Glättemittel.

Work may be interrupted because new PCI-Silcoferm S perfectly bonds to material which has already cured.

COLOURS

Translucent 18 Manhattan 31 Cementgrey
02 Bahamabeige 19 Basalt 40 Black
03 Caramel 20 White 41 Dark brown
05 Midbrown 21 Grey 43 Pergamon
11 Jasmin 22 Sandgrey 44 Topas
12 Anemone 23 Lightgrey 47 Anthracite
16 Silvergrey



The Chemical Company

PLEASE NOTE

- Do not apply PCI-Silcoferm S at temperatures below +5°C or above +35°C.
- PCI-Silcoferm S cannot be painted over.
- PCI-Silcoferm S is not suitable for floor joints subject to heavy mechanical loads.
- Use PCI-Carraferm for natural stones.
- Discolourations may occur on oak wood.
- Due to the variety of varnishes we recommend to do a bond test.
- Although PCI-Silcoferm S contains fungicides, the joints should be cleaned with regular household Cleaners in sanitary areas to prevent mould and mildew growth.
- Storage: approx. 9 months if stored in a cool and dry location.
- Not suitable for PE / PP window frames.
- We recommend to do a bond test for plastic substrates.
- Opened cartridges can be stored several days if the nozzle is plugged with some sealant. Prior to further application remove the cured sealant from the nozzle.
- In case of contact with bitumen substrates discolourations and bonding problems may occur.
- Sealant spills should be removed with PCI-Univerdüner while the material is still uncured. Smooth and cured surfaces can only be cleaned by mechanical means.

SAFETY Avoid eye contact with uncured sealant.

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

For International Uses this product is known as PCI (Silcoferm S),

BASF Construction Chemicals (UK) Ltd

Albany House, Swinton Hall Road,
Swinton, Manchester,
M27 4DT, England.
Tel: + 44 (0) 161 794 7411
Fax: + 44 (0) 161 727 8547
E-mail: pci.uk@basf.com
Website: pci.uk.com

In view of widely varying site conditions this data sheet is meant to provide general application guidelines only. Any recommendation or information issued by us constitutes a preliminary and accessory contractual obligation only. Users must satisfy themselves regarding the applicability of the content to their own particular requirements. Please contact our Advisory Service for special requirements. Liability is accepted for incomplete or incorrect particulars in our information material only in the event of intent or gross negligence, without prejudice to claims under product liability laws. All transactions are subject to our Terms of Sale and Supply. Any subsequent publication supersedes this edition. **Edition January 2007.**