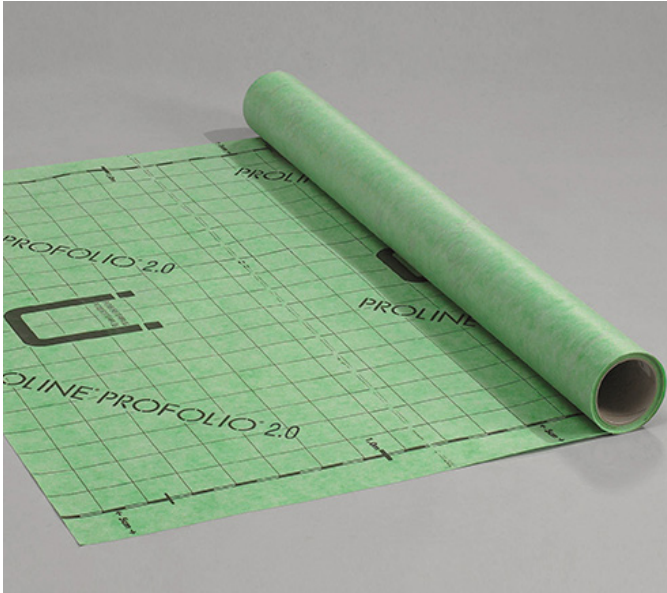


PROFOLIO 2.0

in the system with products from companies:
Codex, Bostik, Sopro, Mapei, and PCI

*Sealing and decoupling film
under tiles and slabs*



Use and applications:

PROFOLIO 2.0 is a flexible and crack-bridging sealing and decoupling film for creating compound seals in humid and wet rooms, in outside areas and in areas subject to moderate chemical exposure, and thus corresponds to the water performance classes (WEK) W 0-I, W 1-I, W 2-I and W 3-I in accordance with DIN 18534 (special design). Typical areas of use are private or commercial baths and showers, e.g., in hotels, hospitals and nursing homes, laundry rooms and other wet areas such as swimming pool surrounds and similar.

PROFOLIO 2.0 bridges cracks, thus enabling better protection against any subsequent cracks in the laying surface, such as the screed.

PROFOLIO 2.0 protects surfaces that are sensitive to moisture, such as wooden grille structures or gypsum-based surfaces against damage from moisture penetration and steam pressure effects.

PROFOLIO 2.0 is used on wall as well as floor surfaces. Light to medium wheeled loads with pneumatic tyres or rubber tyres are possible.

PROFOLIO 2.0 can be installed above or below underfloor heating.

PROFOLIO 2.0 in the system with barrier coating. Sealing system certified by building authorities (abP). The barrier coating as well as sealing tape, corners and sleeves are included in the system. The one-component adhesive and sealant Ottocoll M500 can also be used.

- In domestic, commercial and industrial areas.
- Over screeds, in-situ concrete surfaces, prefabricated concrete components, hollow floor and wooden grille structures, old tiles or slabs.
- Over lime cement, cement and gypsum plaster, plasterboard, plaster cast and dry construction panels, tile backing elements and EPS, XPS or PU foam sheets.
- Usable over electrical heat conductors or hot water underfloor heating.
- For protecting the supporting surface against the mixing water of the grout.

PROFOLIO 2.0

in the system with products from companies:
Codex, Bostik, Sopro, Mapei, and PCI

Sealing and decoupling film under tiles and slabs

Product advantages:

PROFOLIO 2.0 is easy to handle and to cut with a cutter knife or scissors. The fleece on both sides enables good bonding with mortar or adhesive.

PROFOLIO 2.0 is ready to use and enables fast continuation of work. The specified layer thickness monitoring becomes unnecessary. The low thickness supports evenness of the surface.

PROFOLIO 2.0 is resistant against many acids, lye, salts, organic solvents, alcohol and oil (s. resistance chart in the Appendix).

PROFOLIO 2.0 is resistant to age and physiologically harmless.

PROFOLIO 2.0 is stretchable, resistant to rotting, bacterial and fungal attack, and does not affect drinking water.

- Easy to handle
- Ready to use with defined layer thickness
- Crack-bridging flexibility
- Vapour barrier
- Certified total system with general building approval test certificates
- Decoupling

Delivery:

Webs wound into rolls,	1.00 m width
Rolls with 5 m ²	Item no.: 93503
Rolls with 30 m ²	Item no.: 93504

Technical data:

PROFOLIO 2.0

Sealing and decoupling film

Material	Liquid extruded polyethylene membrane between two pieces of polyethylene fleece.
Colour	green
Width	1 m (+/-3 mm)
Thickness	approx. 0.62 mm (+/-0.1 mm)
Weight	approx. 275 g/m ² (+/-6%)
Fire classification	B2 acc. to DIN 4102-1

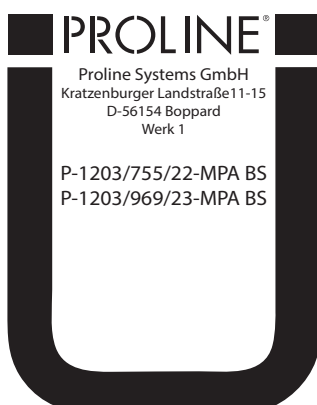
General building approval test certificate:

On request, we will be pleased to send you the test certificates to your specified E-mail address or fax number or you can download them here:

www.proline-systems.com

Storage and transport:

Rolls and accessories from **PROFOLIO 2.0** must be stored and transported in a cool and dry environment protected from sunlight and dirt. **PROFOLIO 2.0** - rolls are to be preferably stored upright. The storage duration is 24 months under these conditions.



PROFOLIO 2.0

in the system with products from companies:
Codex, Bostik, Sopro, Mapei, and PCI

Sealing and decoupling film under tiles and slabs

Environment and disposal:

Secondary packaging, packaging and product remnants must be disposed of according to the legal provisions and regional regulations.

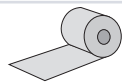
Information on hazardous goods and substances:

The information in the associated safety data sheets for the adhesives and barrier coatings used must be observed.

Required additional products:

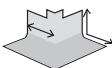
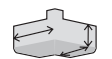
PROFOLIO sealing tape:

Type	Highly flexible, transverse-elastic tri-laminate, fleece backed, both sides	
Colour	green	
Thickness	approx. 0.7 mm	
Total width	approx. 120 mm (+/- 2 mm)	
Rolls with	50 m (with scaling)	Item no.: 93131
Rolls with	10 m	Item no.: 93141



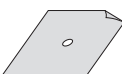
PROFOLIO sealing tape corners:

Type	Highly flexible, transverse-elastic tri-laminate, fleece backed, both sides	
Colour	green	
Thickness	approx. 0.7 mm	
Total width	approx. 60 + 60 mm	
Inside corner length of leg	approx. 120 mm	
Outside corner length of leg	approx. 110 mm	
Carton with	25 pieces	
Inside corner		Item no.: 93518
Outside corner		Item no.: 93519



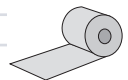
PROFOLIO sealing sleeves:

Type	Highly flexible, transverse-elastic tri-laminate, fleece backed, both sides	
Colour	green	
Thickness	approx. 0.7 mm	
Wall sealing collar incl. 15 mm hole pitch		Item no.: 93512
Size	120 x 120 mm	
Carton with	25 pieces	
Floor sealing collar		Item no.: 93510
Size	425 x 425 mm	
Carton with	10 pieces	



PROFOLIO butt-joining tape:

Material	Polyethylene film with heat-laminated PP fleece on both sides.	
Colour	green	
Width	approx. 150 mm	
Thickness	approx. 0.4 mm (+/- 0.1 mm)	
Length	approx. 25 m	
Carton with	1 pieces	Item no.: 93505



Construction chemical products:

The manufacturer's technical data sheets must be observed

Adhesive:

Product:

Codex CX3
Bostik Arda Fix Flex
Sopro Nr. 1 Flex
Mapei Ultra Light S1
PCI FT Extra

Manufacturer:

Codex GmbH
Bostik GmbH
Sopro Bauchemie GmbH
Mapei GmbH
PCI Augsburg GmbH

Barrier coatings:

Codex NC 210 1K
Ardatec 1K Flex
Sopro DSF 623 1 K
Monolastik Ultra 1K
PCI Seccoral I K

Codex GmbH
Bostik GmbH
Sopro Bauchemie GmbH
Mapei GmbH
PCI Augsburg GmbH

Only use adhesives and barrier coatings from the same manufacturer.

Ottocolli M500:

Material	Hybrid adhesive and sealing compound
	One-component adhesive and sealing compound based on hybrid polymer STPU
Colour	White
Delivery	Cartridge of 310 ml each
Item no.:	93514

The technical data sheets of the manufacturer Hermann Otto GmbH must be observed.

PROFOLIO 2.0

in the system with products from companies:
Codex, Bostik, Sopro, Mapei, and PCI

Sealing and decoupling film under tiles and slabs

DIN 18534 - sealing of interior space:

Water performance class (WEK)	Materials 1 Adhesion of sealing tape, adhesion of film downwards, application of mortar/adhesive	Materials 2 Adhesion of overlap zones	Materials 3 Collars adhesion on wall and floor	Materials 4 Adhesion of film on the wall
W 0-I	Codex CX 3	Codex NC 210 1K	Codex NC 210 1K	Codex CX 3
	Mapei Ultra Light S1	Monolastik Ultra 1K	Monolastik Ultra 1K	Mapei Ultra Light S1
	Bostik Arda Fix Flex	Ardatec 1K Flex	Ardatec 1K Flex	Bostik Arda Fix Flex
	Sopro Nr. 1 Flex	Sopro DSF 623 1 K	Sopro DSF 623 1 K	Sopro Nr. 1 Flex
	PCI FT Extra	PCI Seccoral I K	PCI Seccoral I K	PCI FT Extra
			Ottocoll M500	
W 1-I	Codex CX 3	Codex NC 210 1K	Codex NC 210 1K	Codex CX 3
	Mapei Ultra Light S1	Monolastik Ultra 1K	Monolastik Ultra 1K	Mapei Ultra Light S1
	Bostik Arda Fix Flex	Ardatec 1K Flex	Ardatec 1K Flex	Bostik Arda Fix Flex
	Sopro Nr. 1 Flex	Sopro DSF 623 1 K	Sopro DSF 623 1 K	Sopro Nr. 1 Flex
	PCI FT Extra	PCI Seccoral I K	PCI Seccoral I K	PCI FT Extra
			Ottocoll M500	
W 2-I	Codex CX 3	Codex NC 210 1K	Codex NC 210 1K	Codex CX 3
	Mapei Ultra Light S1	Monolastik Ultra 1K	Monolastik Ultra 1K	Mapei Ultra Light S1
	Bostik Arda Fix Flex	Ardatec 1K Flex	Ardatec 1K Flex	Bostik Arda Fix Flex
	Sopro Nr. 1 Flex	PCI Seccoral I K	PCI Seccoral I K	Sopro Nr. 1 Flex
	PCI FT Extra		Ottocoll M500	PCI FT Extra
W 3-I	Codex CX 3	Codex NC 210 1K	Codex CX 3	Codex CX 3
	Mapei Ultra Light S1	Monolastik Ultra 1K	Monolastik Ultra 1K	Mapei Ultra Light S1
	Bostik Arda Fix Flex	Ardatec 1K Flex	Ardatec 1K Flex	Bostik Arda Fix Flex
	Sopro Nr. 1 Flex	Sopro DSF 623 1 K	PCI FT Extra	Sopro Nr. 1 Flex
	PCI FT Extra	PCI Seccoral I K	Ottocoll M500	PCI FT Extra

Preparation / assessment of the surface:

The surface must be level, clean, dry, devoid of release agents, loose or easily detachable materials as well as sufficiently adhesive, rigid and pressure-resistant in accordance with the intended load, and must distribute the load across its whole area. Deformations due to wastage in the surface must be sealed as much as possible, other deformations must be excluded.

The surface must be checked for suitability in accordance with the intended wet duty classification (ZDB publication (Central Association of the German Construction Industry) "Hinweise für die Ausführung von Verbundabdichtungen" (Notes on the application of bonded damp-proofing...)).

The evenness of the surface must meet the required quality, based on the completed flooring. Levelling work must be completed before the laying of **PROFOLIO 2.0**.

PROFOLIO 2.0

in the system with products from companies:
Codex, Bostik, Sopro, Mapei, and PCI

Sealing and decoupling film under tiles and slabs

Any cracks >0.4 mm in the surface must be sealed and dowelled correctly and must not form any height offset in the long term. Cracks in surfaces are to be limited to a maximum crack width change of 0.2 mm. Hairline and shrinkage cracks on the surface (<0.4 mm width), which do not affect the stability of the surface, can be reworked and decoupled with **PROFOLIO 2.0**. Backgrounds must be assessed and prepared according to the specialist regulations in place.

The manufacturer's specifications must be observed with regard to the use of construction chemical products.

Ideal tools:

- A cartridge gun with integrated transmission facilitates the squeezing properties of the MS polymer.
- A possible customized floor covering notched trowel, e.g., TKB toothing A3 or S3, or a shortened notched trowel (toothing 4 mm) facilitates even distribution of the mortar in the area of the overlap zones.
- When handling sealants, it is recommended to use thin protective gloves.

Installation requirements:

Materials used for the preparation of surfaces must have reached their nominal strength and readiness for covering (e.g., primers, screeding compounds and balancing mass). The room and surface temperature should be between + 5 °C and +25 °C. It is useful to create climatic conditions that correspond to the later conditions of use.

Depending on its type and structure, the prepared surface is to be pretreated for the subsequent adhesion of **PROFOLIO 2.0**, adapted to the thin-bed mortar used (refer to manufacturer specifications). In principle, the thin-bed mortar used above and below **PROFOLIO 2.0** should correspond at least to quality C2 in accordance with DIN EN 12004.

The best adhesion with **PROFOLIO 2.0** is achieved with the above mentioned system-certified (abP) thin-bed adhesives. These thin-bed adhesives are to be exclusively used for the application area of the certified sealing system (abP, WEK WO-I to W3-I).

Methods:

Handling of PROFOLIO 2.0 sealing and decoupling film:

Use a 4 mm square toothing to brush on the mortar of the **Materials 1** to cover all of the web width. Then immediately insert the webs, which have been cut to fit perfectly, and press them on well; use a plastering float or smoothing trowel for rubbing down, if required. Only brush on as much mortar as is required to ensure that the webs cut to size can be inserted within the adhesion time.

Make sure that the web is laid without any creases, creating a solid bed as much as possible. Lay all further webs so that an overlap over the adjacent web of at least 5 cm in width remains. Then glue this with barrier coating of the same type. In case of on grade showers, arrange the overlap joints in the direction of the gradient.

Apply **Materials 2** only up to the edge of the adjacent web. Equally, apply **Materials 2** only up to the edge of the **PROFOLIO sealing tape**. In the joint area of the webs, the **PROFOLIO butt-joining tape** can also be used. All overlaps within the film surface and all overlaps next to the sealing tape are to be glued with barrier coating, as described before. Next to the sealing tapes in front of walls and adjoining components, glue **PROFOLIO 2.0** with barrier coating and smooth out. **PROFOLIO 2.0** must not be subject to mechanical strain or be exposed to moisture before the nominal strength is achieved.

Handling of PROFOLIO sealing tape:

First of all, glue all required **PROFOLIO sealing tape corners** (inside and outside corners) with **Materials 1**. Then cut the **PROFOLIO sealing tape** to the length measurement plus the overlap zones (at least 5 cm) and, using **Materials 1**, glue in turn to the surface at the centre (see printed centre line) over the expansion joints or the floor-wall corner. Use barrier coating in the overlap area. No adhesive or mortar is to spill over the width of the edge strip or the expansion joint (if applicable, mask with suitable narrow adhesive tape

PROFOLIO 2.0

in the system with products from companies:
Codex, Bostik, Sopro, Mapei, and PCI

Sealing and decoupling film under tiles and slabs

beforehand). Always use a suitable scraper or trowel to press in the sealing tape, corners and overlap zones properly without creating any creases and smooth any emerging excessive material over and along the edge of the adhesive joint. Make sure that there is a sufficient quantity of sealants for complete moistening, not leaving any air bubbles or channels in the sealants under the **PROFOLIO** system components.

Handling of PROFOLIO sealing sleeves:

Insertion of the **PROFOLIO** sealing sleeves on the wall and floor takes place, as described before, completely glued over **PROFOLIO 2.0** using barrier coating.

Floor drains require a suitable bonding flange or loose/fixed flange.

PROFOLIO floor collars:

Mark the opening from the sealing sleeves, according to the intended floor drain opening, cut accordingly, and integrate into the loose/fixed flange construction. Likewise, cut the opening for bonding flange connections (or counter flange combination).

WEK W2-I:

The sealing sleeves are used over the bonding flange with the respective barrier coating or the one-component adhesive and sealant Ottocoll M500.

IWEK W3-I:

The sealing sleeves are used with the respective barrier coating or the one-component adhesive and sealant Ottocoll M500.

PROFOLIO wall collars:

The wall collars already include a centred punched hole measuring 15 mm. For larger pipe openings, enlarge the punched hole so that the diameter of the hole is at least 7 mm smaller than the pipe opening, and the resulting raised surface of the collar, which is at least 2 mm in height, is uniformly flush with the pipe.

WEK W2-I

Fully and generously apply the used barrier coating to the connecting point between pipe and wall. Place the collar over the pipe and press on properly. Now equally glue the remaining surface of the collar completely to the **PROFOLIO 2.0** using barrier coating. The one-component adhesive and sealant Ottocoll M 500 can also be used.

WEK W3-I (special designs):

Fully and generously apply the used barrier coating to the connecting point between pipe and wall. Place the collar over the pipe and press on properly. Now equally glue the remaining surface of the collar completely to the **PROFOLIO 2.0** using barrier coating. The one-component adhesive and sealant Ottocoll M 500 can also be used. Always use a suitable scraper or trowel to press in the collar properly without creating any creases and smooth any emerging excessive material over and along the edge of the adhesive joint. Make sure that there is a sufficient quantity of sealants for complete moistening, not leaving any air bubbles or channels in the sealants under the **PROFOLIO** system components. Once the sealing work is completed, check the surfaces for damage, insufficient adhesions, creases and bubbles or perforations, and rework thoroughly if required.

The floor coverings are laid once the sealants / thin-bed mortar have reached their nominal strength, and the film and sealing tape hold fast. This depends on the climatic building site conditions and existing surfaces. Sealed-in pipes must no longer be turned or removed, otherwise, the tightness to the bonded waterproofing is no longer guaranteed.

Laying the tiles and slabs:

The thin-bed adhesives in column **Materials 1** are used to lay the tiles or slabs with the thin-/medium-bed procedure in accordance with the generally approved specialist regulations as well as the manufacturer specifications of the respective construction chemistry.

PROFOLIO 2.0

in the system with products from companies:
Codex, Bostik, Sopro, Mapei, and PCI

Sealing and decoupling film under tiles and slabs

Use as decoupling layer:

As long as **PROFOLIO 2.0** is solely used as decoupling film, installation with sealing tape and sealing sleeves is superfluous. In this case, the film overlap can then be glued with the thin-bed adhesive used for adhering the film.

Chemical resistance of PROFOLIO 2.0:

Resistance after 7 days storage at	+	= resistant
room temperature in the following chemicals	0	= weakened
(Internal examinations)	–	= not resistant

Hydrochloric acid 3%	+
Sulphuric acid 35%	+
Citric acid 100 g/l	+
Lactic acid 5%	+
Potash 3%/20%	+/+
Sodium hypochloride 0.3 g/l	+
Sea water (20 g/l sea water)	+
Solvent up to max. 3%	+

Standards and regulations:

In addition to all relevant, currently applicable data sheets, standards and guidelines, the following ones are particularly recommended for observance and consideration:

- DIN 18352 Tiling and slab laying
- DIN 18332 Natural stone laying
- DIN 18333 Working with concrete ashlar
- DIN 18353 Screed work
- DIN 18195 Waterproofing
- DIN 18534 Sealing of interior areas in particular
- DIN 18534-1, Requirements, planning and execution principles
- DIN 18534-5 Sealing with sheet-type sealing materials(AIV-B) in combination with tiling and slabs
- DIN 18202 Tolerances in building construction
- DIN 18560 Screeds in building construction
- DIN EN 13813 Screed mortar, screed mass, screeds
- DIN 4109 Sound insulation in building construction

- Data sheets from the Federal Association for Screeds and Coverings
- Data sheets from the German Tile and Natural Stone Association of the Central Association of the German Construction Industry, in particular:
- Bonded damp-proofing
- Expansion joints
- Surfaces in damp locations
- Interface coordination for heated floor structures
- Central Association of the German Construction industry: Tiles and mat information "Notes on decoupling"
- German Natural Stone Association – Structural information on natural stone

All information was gathered with due care and is to be understood as a guide. It was determined for **PROFOLIO 2.0**, not the overall system.

Important notes:

- Mortar tempered with plastic, dispersions and elastic fill-in and sealing substances must be able to dry completely at least once before they reach their full functionality, and the surfaces can be approved for the intended use.
- **PROFOLIO 2.0**, used as decoupling film, does not replace the installation of expansion joints, and the planning and compliance with sufficiently large field sizes.
- **PROFOLIO 2.0**, used as sealing film, does not replace waterproofing in accordance with DIN 18531, DIN 18533 and DIN 18535 as well as the versions in accordance with the flat roof guidelines.
- Polyethylene is only partially UV-resistant and must be protected against direct sunlight.
- Underfloor heating must be equipped with advance flow temperature control, and must not exceed a surface temperature of 28 °C.
- Cupped screeds carry the risk of larger subsequent settling and subsidence to result in breaks of mounting parts and walls, in turn leading to floor coverings or the sealing and decoupling film to be sheared off in the stress area.

PROFOLIO 2.0

in the system with products from companies:
Codex, Bostik, Sopro, Mapei, and PCI

Sealing and decoupling film under tiles and slabs

- Wood substrates such as wooden floors, OSB panels and similar must be rigidly connected to the supporting surface. The overall deformation must not exceed $L/500$.
- The mechanical strain from rolling loads depends on the weight of the rolled load, the type, size and material of the wheel. This determines the relevant wheel press. The wheel press on the floor covering laid over **PROFOLIO 2.0** must not exceed 2 N/mm^2 . The breaking force of the tiles or slabs must be correspondingly large (if necessary $> 3500 \text{ N}$). If the use of industrial trucks is intended, get application-relevant advice first. The use of pallet trucks with metal rollers and polyamide wheels constitutes a high mechanical load. **PROFOLIO 2.0** is not suitable for this application.
- Floorings made of tiles and slabs are not flexible in general. For this reason, surfaces must not get deformed or sag under the loads intended for the rooms.
- **PROFOLIO 2.0** is used in many different applications and combinations. The surface covering material can be of very different qualities. Therefore, our information can only be general advice. If special or specified areas of use are to be covered, for example with unusual physical or chemical effects, this must be discussed on a case-by-case basis.
- The coverings on wall surfaces over the bonded waterproofing must not exceed 150 kg/m^2 with complete mortar wetting. The load capacity of the substructure must be considered. It must be able to take the attached load fully rigid and dimensionally stable.

All details, references, notes, applicable specialist regulations, guidelines, standards and specialist knowledge are directed towards the German, and insofar as they are congruent, to the existing European regulations and training standards, irrespective of additional country-specific extensions or modifications.

All our information is based on our experience and carefully performed tests. The variety of additional materials that might be used and differing construction and working conditions cannot be individually checked or influenced by us. The fulfilment of an outstanding service contract and the manufacturing of a demonstrable functional capability of the trades is therefore dependent on adhesion to the current VOB (German Construction Contract Procedures) regulations and recognised technological rules.

Our details do not preclude responsible planners and processors from their duty to independently assess the conditions of a building and suitable application of the products. In case of doubt, please seek technical application advice or carry out your own tests. The manufacturer's guidelines for laying and processing the surfacing material or the guidelines for other products used must be observed.

The publication of this product data sheet invalidates all previous product data sheets.

© Proline Systems 2018 – reproduction and passing on by our customers to their customers is permitted, insofar as there is a clear indication of our copyright. All other rights reserved.