

# PROFIX DS

**Two-component sealing gels with quick and elastic curing for bonding seals under ceramic coverings.**



## Fields of application:

PROFIX DS is an easy-to-process, quick-setting, flexible sealing gel with high adhesive strength on mineral surfaces. It cures without shrinkage or cracking. Resistant to frost and ageing. Very secure in the event of subsequent shrinkage cracks in the substrate.

PROFIX DS is suitable for substrates with sufficient strength, such as heated or unheated screed, concrete, masonry, porous concrete or plaster from mortar group II or III. For reliably sealing under tile flooring in damp rooms.

Corresponds to moisture resistance classification A, A0 and C in accordance with the building regulation list for interior walls and floor surfaces.

## Product advantages:

PROFIX DS is:

- Two-component
- Very easy to work
- High polymer content 1:1 mixing ratio
- Quick-setting even at cooler temperatures
- Complete drying regardless of weather thanks to reaction-based setting
- Suitable for application via brush, roller or trowel
- Processing time of approximately 30 minutes
- Sets without shrinking
- Work can continue after approximately 90 minutes
- Sets in the absence of air

## Delivery form:

Comp. A 1.75 kg bag / Comp. B 1.75 kg canister in a mixing container

Item no.: 93784

## Technical data:

Processing temperature	> +5 °C - +25 °C
Colour	Black-brown
Bulk density	~ 1.14 g/cm <sup>3</sup>
Mixing ratio	1 GT comp. A / 1 GT comp. B
Wet layer thickness	3.0 mm (ensures 2 mm dry layer thickness)
Processing time	Approx. 30 min
Drying time for 1st layer	Approx. 90 min
Laying work possible	After approx. 4 hours
Can be subjected to water	After at least 3 days

## Storage and transportation:

About 12 months in original packaging in a cool location protected from moisture and frost:

## Cautions and safety notes:

As a product containing cement, the powder component is classified as a hazardous material according to the German Ordinance on Hazardous Substances.

### Hazard warnings:

Skin and eye irritant.

Keep out of reach of children.

Do not breathe the dust.

Avoid contact with eyes and skin. In the event of contact with the eyes, thoroughly rinse with water and seek medical attention. Wear suitable safety gloves during work.

If swallowed, seek medical attention and show the label or safety data sheet. The fluid component is not a hazardous material as stipulated by the Ordinance on Hazardous Substances.

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## Environmental protection and disposal:

Can be disposed of as construction waste once cured.  
Dispose of containers and leftover product as stipulated by law and in accordance with regional regulations.

## Supplementary products:

<b>PROFOLIO</b>		
<b>Sealing and decoupling membrane</b>	Polyethylene film with thermal nonwoven PP fabric layer on both sides	
Colour	Green	
Width	approx. 1.0 m / approx. 0.4 mm thick	
Rolls with	5 m	Item no.: 93501
Rolls with	30 m	Item no.: 93502

<b>PROFOLIO</b>		
<b>Sealing tape</b>	Highly flexible, laterally elastic tri-laminate, fleece-backed on 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

<b>PROFOLIO</b>		
<b>Sealing tape corners</b>	Highly flexible, laterally elastic tri-laminate, fleece-backed on both sides	
Colour	Green	
Thickness	approx. 0,7 mm	
Total width	approx. 60 + 60 mm	
Leg length, inner corner	approx. 120 mm	
Leg length, outer corner	approx. 110 mm	
Box, each containing	25 units	
Internal corner element		Item no.: 93518
External corner		Item no.: 93519

<b>PROFOLIO</b>		
<b>Sealing liners</b>	Highly flexible, laterally elastic tri-laminate, fleece-backed on both sides	
Colour	Green	
Thickness	approx. 0.7 mm	
Wall sealing liner including 15 mm hole punch		Item no.: 93512
Size	120 x 120 mm	
Box containing	25 units	
Floor sealing liner		Item no.: 93510
Size	425 x 425 mm	
Box containing	10 units	

## PROFOLIO

<b>Butt-joining tape</b>	Polyethylene film laminated with thermal nonwoven PP fabric layer on both sides.
Colour	Green
Width	approx. 15 cm / approx. 0.4 mm thick
Rolls	25 m
Art. No.:	Item no.: 93513

## Preparation/assessment of substrate:

The substrate has to be solid, stable, absorbent, with fine pores and mostly level. Dirt from oil, grease, dust or other cleaning agents must be removed. Flaws and unevenness must be evened out beforehand using a mineral-based filler.

**Thoroughly pre-wet the substrate; using a suitable primer is recommended.**

The surface should be slightly damp; puddles should be avoided. The residual moisture must not exceed the following values:

- Cement screed: 2%
- Anhydrite screed: 0.5%
- Anhydrite screed, heated: 0.3%

**PROFIX DS** can be applied directly to new poured asphalt screed sprinkled with quartz sand.

On poured asphalt screed not sprinkled with sand, first apply a suitable primer so that a film is formed

## Laying/working:

### Working

Shake the liquid component well before use.

Stir the two components in the clean mixing container until there are no lumps.

For partial amounts: Mix one part liquid component by weight to one part powder component by weight. Prepare the liquid component, add the powder component, then mix using a suitable stirrer basket.

Provide a thick, even application with a solid brush, swab or trowel in 2 to 3 passes.

Wall-floor connections and corners must be laid out with **PROFOLIO sealing tape** and **PROFOLIO sealing tape corners**; pipe feed-throughs, penetrations and drains must be laid out with **PROFOLIO sealing liners**.

These must be inserted fresh in the first layer and worked over in the second layer. The application thickness must not exceed 5 mm.

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Alternatively, the procedure outlined in system data sheet 523 (The PROFOLIO system with PROFIX DS) can be used.

The sealing gel must not be modified with other additives.

Protect the fresh seal from rapid removal of water; the effects of extreme heat, draughts, frost and rain. Only mix a quantity of **PROFIX DS** that can be worked within 30 minutes.

## Consumption

Laying work consumes approximately 1.6 kg/m<sup>2</sup> per mm of layer thickness.

## Drying time

Depends on temperature, air currents and humidity. Approximately 90 minutes at +20 °C with a rel. humidity of 50%.

## Notes for subsequent work

Suitable surface layers such as ceramic or natural stone can be laid on the sealing gel using adhesive and mortar matched to the covering after about 4 hours.

## Cleaning tools

Clean tools and dirty spots with water immediately after use. Cleaning is no longer possible once the product has cured.

Additional information can be found in the safety data sheets.

## **Chemical and physical resilience:**

**PROFIX DS** is resistant to commercially available cleaning agents and lotions.

Furthermore:

- The greater the flexural strength and compressive resistance of the substrate and the higher the breaking strength of the tile or slab material, the larger they can be. This also increases the mechanical load capacity of the surface layer for preventing destruction caused by impacts (such as from falling objects). Loads from pedestrian traffic and frequent traffic from rollers and floor conveyors with rubber tyres can be borne without damage for compression forces of up to 1.0 kN/mm<sup>2</sup>.
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- The permissible mechanical load consists of loading groups I and II in accordance with ZDB bulletin "Coverings capable of withstanding high loads" from October 2005.

- The use of lift trucks with metal rollers and polyamide wheels normally represents high to extremely high mechanical loads. **PROFIX DS** is not suitable for this application.
- The substrates to be covered must have a sufficient level of flexural strength, compressive resistance and low vibration for the intended load.
- The installation sequence must take into account the curing times in relation to the laying temperature and manufacturer's specifications so that previously laid sections are not weakened or even damaged.

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## Standards and regulations:

Aside from all the relevant and currently applicable bulletins, standards and directives, the information listed as follows is recommended:

- DIN 18352 Tile and slab laying work
- DIN 18332 Natural stone work
- DIN 18333 Cast stone work
- DIN 18353 Screed work
- DIN 18195 Building seals
- DIN 18202 Tolerances in building construction
- DIN 18560 Screeds in building construction
- DIN EN 13813 Screed mortar and screed masses
- Bulletins from German Association of Screed and Flooring
- Bulletins from Association of Tiles and Natural Stone in the Central Association of the German Construction Industry, in particular:
  - Joint sealing
  - Outside flooring
  - Expansion joints
  - Substrates in damp rooms
- Interface co-ordination of heated underfloor structures
- ZDB tile and slab information "Information on decoupling"
- German Natural Stone Association – Building information about natural stone

*All information, references, instructions, basic engineering principles, regulations, standards and expertise are based on German and largely equivalent European regulations and training standards, irrespective of additional country-specific supplements and amendments.*

*All our specifications are based on our experience and careful analysis. We are unable to examine or influence the diversity of associated materials used and the various construction site and processing conditions in detail. The quality and function of your work is therefore dependent on your professional construction site evaluation and utilisation of the products. In case of doubt, carry out your own tests or seek technical application advice. Please refer to the laying and processing guidelines of the floor covering manufacturers or the manufacturers of associated products. All previously published product data sheets cease to apply on publication of this product data sheet.*

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