

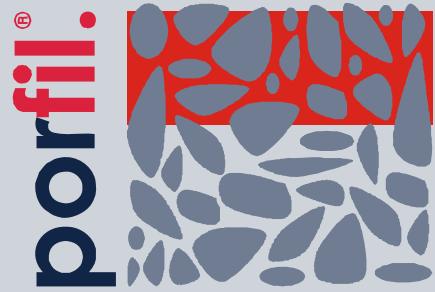
porfil.® BASIC S

Technical Data Sheet

...the pore-filling, super low viscosity
and pressurised water resistant EP concrete-sealant*

Solvent free according to Deutsche Bauchemie e.v.

(*European patent - patent worldwide pending)



Product properties:

- + excellent penetration of screed and concrete (grip and surface roughness of the surface are retained unchanged)
- + very low material consumption independant of the component thickness
- + 3 to 5 days after installation of the screed/concrete covering is possible
- + certified as moisture barrier
- + fast and simple application - surface primer and water-blocker in one step
- + film-forming not necessary to seal the surface, pore-filling is sufficient
- + protects from rear surface moisture and seals resistant to pressurised water
- + improvement of the mechanical parameters (abrasion resistance and adhesive pull strength)
- + CO₂-diffusion barrier, prevents penetration of chlorides etc...
- + high chemical resistance (oil, grease, kerosene, ...)
- + easy-to-clean surface
- + UV resistant
- + conductivity according to DIN IEC 61340, DIN 100015, DIN EN 1081-98, ASTM F 150-98.
- + solvent free
- + does NOT contain either benzyl alcohol or nonyl phenol
- + VOC-certified: very low emissions

Applications:

Curing

- + of screed and green concrete
- + reduction of plastic shrinkage cracks due to early drying out
- + deformation behaviour is reduced

Pore filling primer

- + protects from rear surface moisture
- + seals resistant to pressurised water
- + mechanical parameters such as abrasion resistance and adhesive pull strength are improved

Colour:

porfil.® BASIC S: transparent

Packaging:

Available in 0,75 kg and 5,00 kg multi component units
20,00 kg multi component units on demand

Storage:

porfil.® BASIC S can be kept for 12 months from date of manufacture if stored in original unopened packaging, in a dry enclosed place at temperatures between 15-25°C, without exposure to direct sunlight.

Mixing ratio by weight:

100 parts component A
25 parts component B

Surface preparation:

The correct preparation of the substrate is of paramount importance. All substrates should be sound, clean, dry and free from oil or grease, loose particles and any other substances which may impair penetration.

Any laitance, mould release agents, curing membrane and other contaminants present on the surface must be removed mechanically. Shot blasting or surface grinding followed by vacuum cleaning or high pressure water jetting are the preferred methods. Where weak or damaged concrete has been removed, repairs should be carried out to eliminate surface defects. After pre-treatment of the substrate Concrete and other cementitious substrates must have a minimum pull off strength of 1.5 N/mm².

Mixing:

porfil.® BASIC S is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both the A and B components to a temperature of approximately 15 to 25°C. Pour the entire contents of Part A into the container of Part B. DO NOT MIX BY HAND. Mix with a mechanical drill and paddle at a low speed (approx. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. DO NOT WORK OUT OF THE ORIGINAL CONTAINER. After proper mixing to a homogeneous consistency, pour the mixed parts A and B into a clean container and mix for a further minute.

Application:

porfil.® BASIC S is poured onto the prepared substrate and spread with a squeegee (rubber lip). ALLOW TO CURE. After a short operating time (minimum: 30 minutes) the epoxy excess must be removed with the squeegee. On very porous substrates a second application step may be required (the surface becomes light grey again, showing absorption). Re-prime the dry areas and allow to cure again. The curing time of the material is influenced by the ambient material and substrate temperatures. At low temperatures, the chemical reactions are slowed down, this lengthens the pot-life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperatures should not fall below the minimum.

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Permissible ambient and substrate temperatures:

Minimal +8°C, maximal +50°C. The temperature of the substrate must be at least 3K above the dew point both during and for at least 6 hours after application.

Estimating data:

Consumption will vary according to the surface texture and porosity, but should be in the range of 0,2 - 0,3 kg/m². The above consumption figures are intended as a guide only and may be higher on very rough or porous substrates. Therefore a test application is recommended to define the object-specific material consumption.

Viscosity:

porfil.[®] BASIC S is a very low viscosity material with only slightly increasing viscosity at low temperatures.

+ 8°C	+ 20°C	+ 30°C	+ 50°C
45 mPa s	25 mPa s	18 mPa s	12 mPa s

Application time:

Pot life will vary according to the ambient and substrate temperatures. The mixed material will have a pot life of approximately 30 minutes at 20°C.

	+ 8°C	+ 20°C	+ 30°C	+ 50°C
In container ≤ 2 kg	ca. 45 minutes	ca. 30 minutes	ca. 15 minutes	ca. 8 minutes
Poured out onto the substrate	ca. 60 minutes	ca. 45 minutes	ca. 30 minutes	ca. 15 minutes

Curing:

Cure time will vary depending on the ambient and substrate temperatures. **porfil.[®] BASIC S** will cure to a tack free surface within 24 hours at 20°C

+ 8°C	+ 20°C	+ 30°C	+ 50°C
> 48 hours	> 24 hours	> 12 hours	> 4 hours

Overcoating:

A **porfil.[®] BASIC S** treated surface can be coated with suitable paintings, coatings or floor covering adhesives. To define the compatibility, samples have to be applied first.

Cleaning:

Tools must be cleaned immediately after use with a solvent such as isopropanol or other suitable solvents. Cured material can only be removed mechanically.

Precautions

READ ALL SAFETY DIRECTIONS AND WARNINGS ON TINS BEFORE USE. REFER TO MATERIAL SAFETY DATA SHEET FOR HANDLING PROCEDURES.

- As with all epoxy products, wear protective overalls and gloves - prolonged contact with skin should be avoided as it could produce dermatitis, particularly with people whose skin may be sensitive to epoxy resin systems.
- Ensure adequate ventilation.
- Mix entire contents of each unit as supplied. Do not attempt to split units unless accurate measuring can be assured.
- Do not use at temperatures of less than 5°C unless artificial means of heating can be used to assist cure. During cold weather Part A should be pre-warmed to between 20°C and 30°C.
- Do not allow contact with water until fully cured. These actions prevent whitening of surface at a later date.

Precaution/Waste disposal:

GISCODE: RE 1

Hazardous material regulations: mark-duty.

For the handling of **porfil.[®] BASIC S** the important physical, safety-related, toxic and ecological data have to be extracted from the safety-data-sheet. The instructions for hazardous material handling should be followed. The product information and safety advices on the containers as well as the individual accident prevention regulations from the responsible employees' insurance during the application are to be noticed.

In the uncured condition **porfil.[®] BASIC S** is as a rule hazardous to water and is therefore not allowed to get into the sewerage, water and ground. Uncured quantities of this product are as a rule special wastes needing monitoring and must be disposed properly. After the agreement of the relevant responsible body or waste dump (brit.: disposal), cured material can be disposed as house-/industrial waste. The local bodies, for example environmental protection agency or commercial control office, have a duty to disclose information therein.

Other:

Delivery only for commercial or industrial use.

Up-to-date: 21.11.2007

Current technical datasheet: www.porfil.com

All aforementioned indications, especially proposals on applying and using this product are based on our knowledge and experience of normal cases and are not binding. Due to different materials, undergrounds and varying working conditions a guarantee of treatment quality can not be given. Disregarding the legal relationship, no liability results from either these information or any consultation, unless we make ourselves guilty of gross negligence or malice aforethought. In this case, it is necessary that the applicant has informed us in written and in due time on all information and skills, which are relevant for a promising evaluation. Third parties' rights have to be safeguarded. Further, our respective Conditions of Sale and Delivery are valid as well as our current Technical Data Sheet, which should be requested.