

Waterproofing, drainage, uncoupling **WPSTOP 3**

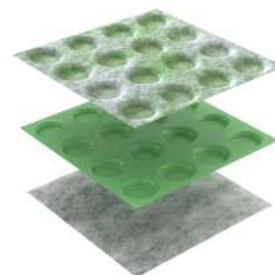


Description

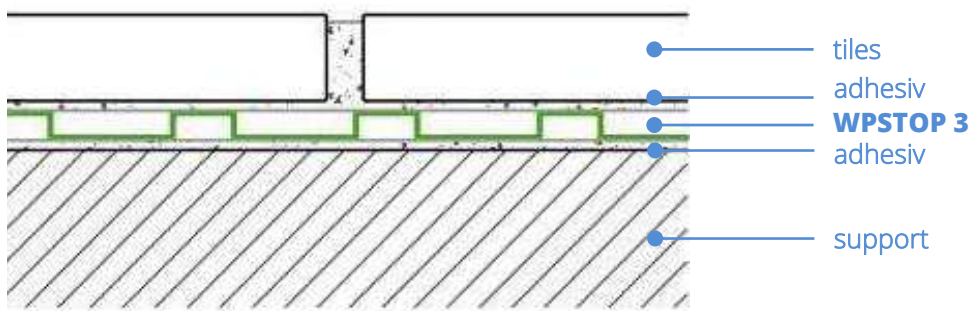
WPstop 3 is a coupled polyethylene (PE) membrane with two layers of non-woven polypropylene (PP) to stick tiles firmly to the adhesive.

WPstop 3, to be laid under tiles and natural stone, overcomes problems when laying on problematic substrates, requiring waterproofing, separation and compensation of vapour pressure in the presence of moisture.

WPstop 3 is laid straight onto the concrete slab or well-anchored ceramic or marble floor, using a tile adhesive that meets DIN EN 12004, class C2 S1 spec.



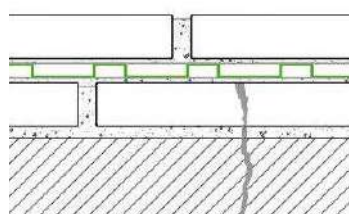
Applications

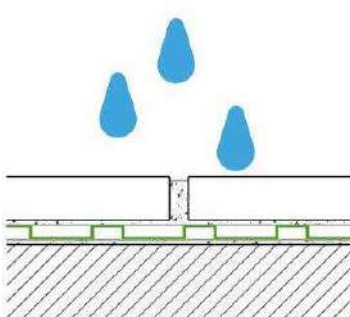


Separation

WPstop 3 separates the floor covering from the subfloor, absorbing any stresses coming from below (shrinkage, expansion, movements, loads, etc.) and assuring they are not transferred to the flooring.

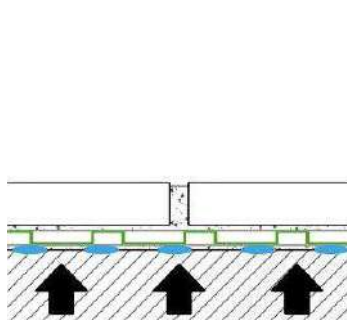
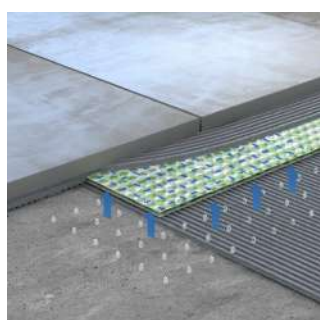
WPstop 3 also performs an anti-fracture function (crack-bridging) by compensating for cracks in the concrete or tiles with movements of up to 1mm. This stops them from reaching the surface layer.





Waterproofing

WPstop 3 is a waterproofing membrane for interior and exterior environments. To achieve water-resistance, the rubber strip must be laid with precision at the membrane-membrane joints (PBE5 or PBE30) and between strips and corner pieces (WPstop membrane range), beside walls and around fixed elements in the structure. An overlap of at least 5cm is required at joints, made using an MS polymer sealant (like Profilpas PP/96) or bicomponent waterproofing cement mortars (EN 14891).



Vapour release

The geo-textile on the underside of the membrane allows vapour to escape into the network of connected channels in the mesh. This feature makes WPstop 3 suitable for installation on subfloors which are not fully dry, speeding up floor laying times as well as providing a separation layer.

Technical Specifications

Central membrane body	Polyethylene
Membrane colour	green
Non-woven fabric layers	Polypropylene
Non-woven fabric colour	white
Membrane thickness	3 mm
Weight	approx. 550 g/m ²
Convexity density	approx. 2500 per square metre
Vacuum volume between convexities	approx. 1.56 l/m ²
Operating temperature	from -40 °C to +80 °C
Storage instructions	Protect from UV light
Dimensions	Rolls 1.00 x 30.00 m
Pallet	8 rolls per pallet (240 m ²)
Additional properties	Resistant to a wide range of chemical products Resistant to fungal and bacterial attack Resistant to root penetration

If the membrane is exposed to or comes into contact with special substances, contact our technical team with details of the concentration, temperature and duration of the exposure. WPstop 3 can be used in a variety of applications, in the event of unusual chemical or mechanical stresses, each use should be assessed on a case-by-case basis. The recommendations provided are purely by way of example.

Thanks to the coupling of the two layers of polypropylene non-woven fabric, the adhesive bond between the adhesive and the subfloor, and the floor to WPstop3, guarantees a shear resistance of approx. ≥ 0.2 N/mm².

Regulations regarding joints

UNI11493-1 sets forth how movement joints are classified and provides guidelines on how they should be installed.

Structural joint: breaks that are the full depth of both the tile covering and the sub-floor.

Separation joint: inserted into the concrete slab for at least a third of the depth. There must be identical, continuous joints in the tiled covering.

Movement joint: breaks only in the depth of the floor covering.

These joints must be of the right size which will depend on the format of the covering, the temperature excursion and expected deformation. Thanks to the separation and neutralization of stresses in the subfloor or floor, with WPstop 3 you can lay slabs of greater areas between the joints.

When there is a risk of horizontal deformation in the separation joints in the sub-floor (min. or equal to 2mm), thanks to the aforementioned feature, the joint doesn't have to be taken up to the surface with WPstop 3.

Remaining in line with applicable regulations (11493-1), the movement joints can be positioned on the surfaced close to the joints in the flooring. When there are structural joints, lay WPstop 3 up to the joint, then start again after it.

If WPstop 3 is being used as a waterproofing system, apply the rubber strip (PBE5 or PBE30) at the joints between the sheets and fix it with an MS polymer sealant (such as Profilpas PP/96) or bicomponent waterproofing cement-based mortar (EN 14891).

In exterior environments (terraces and balconies) the mesh size at movement joints must not be greater than 3m x 3m, and in some cases, smaller sizes may be necessary.

Application and types of support

WPstop3 should be laid on level, mechanically resistant surfaces from which all loose parts, grease, oil, dust, paint or waxes have been removed. When working with exterior surfaces, check the slope is sufficient for rain water to run off and when overlaying, check how well the old floor is anchored and how clean it is. In any event, cracks wider than 1mm must be sealed with a bicomponent epoxy resin. In refurbishments, the existing floor can be left and used as a support for the new floor, only if it is perfectly anchored.

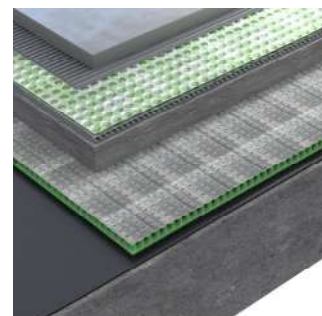
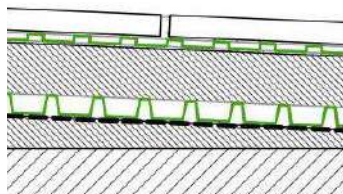
Balconies and terraces

When working on terraces and balconies, the concrete slab/covering must have the right slope, as specified in applicable legislation.

The ceramic tile layer is installed on a waterproofed support: on top of the concrete sub-floor with WPstop 3 and/or under the concrete sub-floor with a waterproof sheath plus WPstop 10 (protective drainage layer).

WPstop 3 is fixed to the concrete sub-floor to separate the flooring from the concrete and to protect it from rising damp. WPstop 3 also neutralises tensions which build up in the sub-floor as a result of temperature excursions between summer and winter.

To achieve water-resistance, wall-wall joints and transition points must be created with precision, using rubber strips at the membrane-membrane joints (PBE5 or PBE30) and between strips and corner pieces (WPstop membrane range), beside walls and around fixed elements in the structure. An overlap of at least 5cm is required at joints, made using an MS polymer sealant (like Profilpas PP/96) or bicomponent waterproofing cement mortars (EN 14891). The ceramic tiles should always be laid "full spread" using tile formats greater than 5 x 5 cm and no less than 6mm thick, respecting separation and movement joints as prescribed in application legislations or by the project manager.

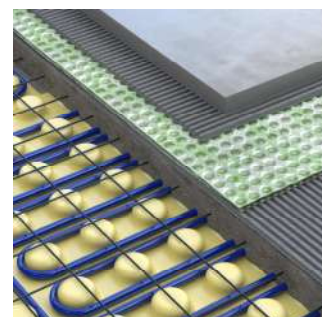


Concrete slabs

Applicable regulations (11493-1) prescribe that, to be considered compliant as a subfloor for ceramic tile coverings, concrete slabs must be left to cure for at least 28 days and have a relative humidity of less than 2%. This rule tends to limit the risk of deformation, mechanical stress or temperature excursions during curing. In reality, these issues can also occur after this time has elapsed. Using WPstop 3, floor coverings can be laid over the concrete slab as soon as it is dry enough to walk on. Any tensions, splits or deformations occurring on the surface will be offset by WPstop 3 and blocked from reaching the tile covering.

Heated slabs

WPstop 3 can also be installed on heated slabs, following the manufacturer's recommendations and respecting existing separation joints. The network of communicating channels on the rear of the membrane allow the heat to spread quickly and evenly under the floor.



Fixing

- The subfloor must be level, mechanically resistant and all loose parts, grease, oil, dust, paint or waxes must have been removed. Level the surface, if necessary, before laying WPstop 3. Seal any fissures greater than 1mm wide on the surface with epoxy resin. When laying over an existing floor, check it is firmly anchored and clean.
- Select the right adhesive (minimum C2 S1 performance) to suit the type of substrate. The adhesive must bond with the substrate and the two layers of non-woven fabric. Always check for incompatibilities between the materials.
- Cut the WPstop 3 rolls to the correct length.
- Spread the adhesive onto the subfloor using a suitable toothed spreader and wet the surface to increase the workability of the adhesive when the ambient temperature is high.
- Lay WPstop3 onto the previously applied adhesive, patting it with a trowel and pressing down evenly across the surface. Wait for the open time of the adhesive, checking how wet the membrane is and making sure it is taut. If WPstop 3 is only being used as a separation layer, the joints and wall-floor transitions don't have to be sealed with the rubber strip (PBE/30 or PBE/5). If water-proofing is required, follow the instructions for laying on balconies and terraces.
- To avoid any damage to the WPstop 3 membrane just laid, and to stop it from detaching or ripping, we recommend protecting the surface from mechanical stress (transporting materials across it) by laying wooden planks as walkways. When working outside, protect the area from direct sunlight and remove any stagnant water from cavities before applying the adhesive.
- After installing WPstop 3, you can then set the tiles. Using the smooth side of the spreader, run it over the adhesive, making sure all the truncated cone cavities are filled. Apply another layer, wet on wet, using a toothed spatula of an appropriate size for the tile format. Next, set the tiles on the adhesive, using the "double spread" technique (back-buttering the tiles) and follow applicable regulations (UNI 11493-1) also regarding the adhesive open time.
- Refer also to applicable regulations (UNI 11493-1) for movement and perimeter joints.

Care and maintenance

WPstop 3 must be stored away from UV rays and therefore must not be left in direct sunlight. Once bonded to the subfloor, tiles must be set within 3-5 days.

When installing WPstop 3 outside, some extra steps are required: protect the area from direct sunlight, use quick-setting adhesives under particular circumstances and when materials have to be transported across the membrane, lay planks to create a walkway over it.

Fire prevention measures

In the event of fire, use chemical fire extinguishers, dry sand or solid extinguishing agents.

Notes:

The indications, instructions, prescriptions and regulations provided are based on European laws and standards which are separate from other supplements or specifications in individual countries. All information provided, despite being based on our experience, should be taken as guidance and always checked with the installation engineer and considering the specific site circumstances.

In the event of any doubt, carry out independent tests or contact our technical division for further information.

Profilpas declines any responsibility for damage to people or things resulting from improper use of the product.

Users must establish for themselves if the product is suitable for the required used and they bear full responsibility for any incorrect installation of the material.

WPSTOP 3


PWP30



PBE30



PP/96

WPSTOP 3
ART. measures

PWP30	roll 1 m height 30 mt length - pack 8 rolls	19940
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PBE30	elastic stripe of 12 cm height and 30 m length - pack 1 roll	19945
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PBE5	elastic stripe of 12 cm height and 5 m length - pack 6 rolls	19946
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no partial packaging

INSTRUCTIONS

Store in a cool and dry place, avoiding direct exposure to sunlight and heat sources.
 Please refer to the technical data sheet before the installation. For special installations, please contact our technical department.

MS POLYMER-BASED ADHESIVE

pack 24 pcs - quantity 290 ml

ART. measures

PP/96		78301
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Specifications

Supply of:

_____ m di WPstop 3 by Profilpas, a polyethylene coupled membrane with truncated-pyramid, circular-base cavities, coated in polypropylene fabric to assure it sticks to the covering. It is suitable for waterproofing and separating ceramic or marble floors, introducing crack-bridging. Underneath, the membrane has a network of communicating channels so that it can be used on damp substrates and a polypropylene fabric that assures it sticks well to the adhesive.

Roll length: _____m
 Roll height: _____m
 Material: _____€/m
 Fixing: _____€/m
 Total price: _____€/m

Supply of:

_____ m of WPstop PBE30 or PBE5, made by Profilpas as a waterproof rubber band with polypropylene fabric on both sides. PBE30 or PBE5 must be applied to wet adhesive as a seal between the floor and the covering and between WPstop 3 and/or other construction elements in areas of joints.

Roll length: _____m
 Roll height: _____m
 Material: _____€/m
 Fixing: _____€/m
 Total price: _____€/m