

VersiDrain® P-Anchor®

Under Screed Drainage Sheet

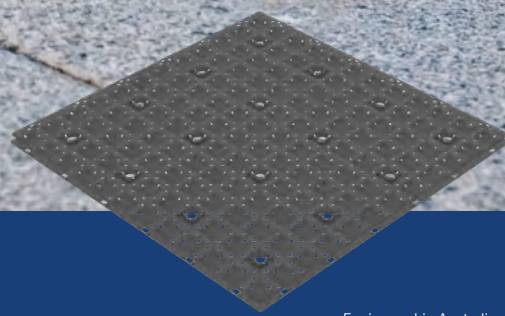


**Creating Cities
Where Urban Meets Nature**

Our Innovation Your Solution

VersiDrain® P-Anchor® is a drainage mat positioned between the structural slab and the screed to drain entrapped water and alleviate efflorescence build-up on tiles and pavers.

Engineered in Australia



VersiDrain® P-Anchor®

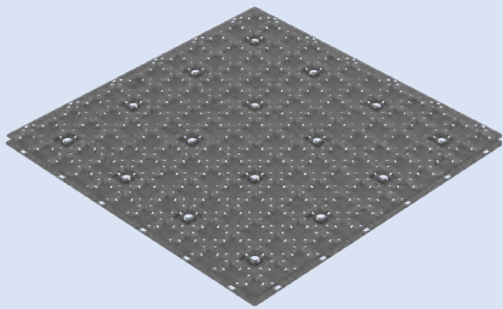
Designed and engineered to remove moisture between floor finish layers, VersiDrain® P-Anchor® provides architects and developers with a solution for alleviating efflorescence build-up on tiled or paved surfaces.

About VersiDrain® P-Anchor®

VersiDrain® P-Anchor® is a lightweight under screed drainage mat installed between the structural slab and the screed. It drains entrapped water in the finishes' cement screed via perforations in the mat to the drainage channel.

The larger openings in VersiDrain® P-Anchor® are designed for the screed to bond directly with the structural concrete below during floor finish installation. The bonding creates numerous anchor points that secure the screed and the structural slab together.

By enabling drainage under the screed, VersiDrain® P-Anchor® mitigates efflorescence where dissolved salts in the water accumulate within the porous cement screed and migrate to the top of the flooring surface. The accumulation causes a build-up of pressure that could result in screed cracking.



The Efflorescence Problem

Efflorescence is the phenomenon of chalky stains appearing on flooring surfaces over time, souring the aesthetics of finishes. These crystalline deposits of soluble salts were either originally embedded in the porous cement screed, or introduced externally through moisture entering the screed.

With no means of escape when water enters the screed, the trapped salt solution rises by evaporation or capillary action through the micro cracks of the cement screed to the surface, leaving behind a powdery stain upon evaporation.

Besides leaving behind unsightly stains, excessive efflorescence may cause a build-up of pressure within the screed layer, resulting in the cracking of screed and the delamination of finishes.

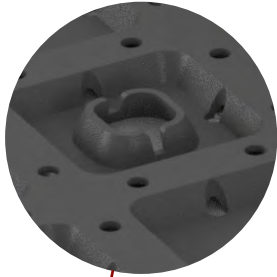
Although the stains can be removed through corrective measures like pressure washing and chemical cleaning, they have to be performed regularly as efflorescence will recur. The long-term and cost-effective solution is to enable the drainage of entrapped water.



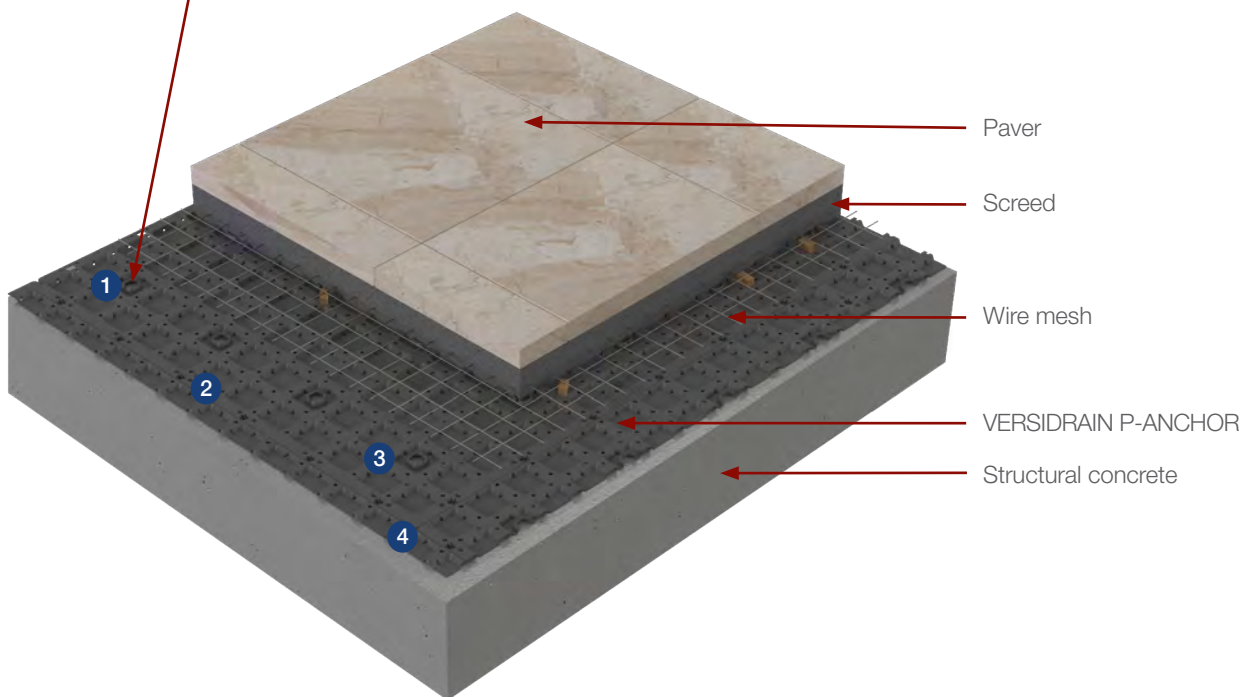
Efflorescence manifests as unsightly white patches on tile surfaces

VersiDrain® P-Anchor® Features

1 Anchor



Frusto-pyramidal openings facilitate the cement screed to bond with the structural concrete for a pull out strength of more than 4 kN/m², removing the “floating slab” effect and minimising hollowness.



2 Interlocking

With an interlocking feature, modules will merge into a continuous drainage mat for effective and uninterrupted drainage.

3 Perforation

Drainage perforations only allow water and not cement screed through into the separation gaps that form drainage channels.

4 Drainage Channel

Drainage channels facilitate water flow into drainage outlets when modules are installed on a suitable gradient.

Technical Specifications

Material	PP
Dimensions	500 mm x 500 mm
Height	6 mm
Weight	~3 kg/m ²
Compressive strength	
Unfilled	>80 tonnes/m ²
Filled (Grade 20 c/s screed)	>1,500 tonnes/m ²
Pull out load	>4 kN/m ²
Service temperature	-30°C to 80°C
Biological resistance	Unaffected by moulds and algae.
Chemical resistance	Resistant to rot oils, acids, alkalis, bitumen and naturally occurring soil chemicals



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