

# VersiDrain® 6P

## Under Screed Drainage Mat



**Creating Cities  
Where Urban Meets Nature**

### Our Innovation Your Solution

VersiDrain® 6P positioned between the structural slab and cement and sand screed prevents efflorescence and algae growth on tiles and pavers.



# VersiDrain® 6P

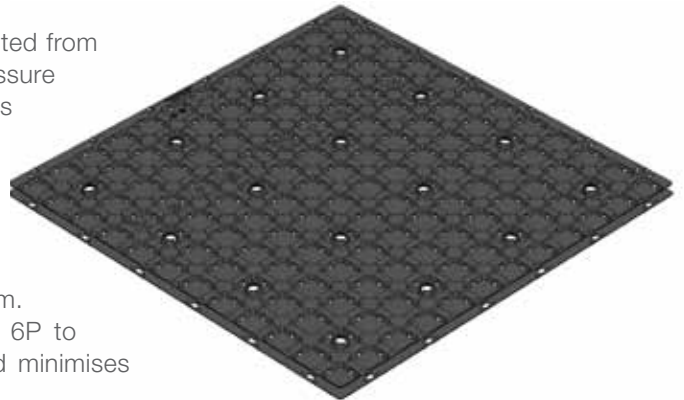
VersiDrain® 6P provides architects and developers with the definitive solution to minimising unsightly efflorescence on concrete, tile and paver surfaces.

## About VersiDrain® 6P

VersiDrain® 6P is a lightweight drainage sheet that is positioned between the structural slab and topping screed for laying of tiles and pavers. It acts as a separation layer between the cement and sand screed and the floor slab, creating a drainage and ventilation cavity that allows entrapped water in the screed to escape via drainage channels and perforations in the sheet and be drained away.

Water and dissolved salts in the screed are thus prevented from accumulating beneath the tiles and contributing to pressure build-up and eventual surface cracks. Dissolved salts are also prevented from migrating to the surface via capillary action, thus minimising efflorescence.

VersiDrain® 6P has evenly spaced apertures permitting flow of cement screed into them forming plugs between the angled walls of the void frustum. These seamless studs mechanically bonds VersiDrain® 6P to the cement screed resulting in increased adhesion and minimises hollowness.



## Advantages

- Efficient drainage under screeds
- Minimises efflorescence & algae
- Reduces surface cracks
- Protects waterproofing membranes

## Applications

- Balconies & terraces
- Swimming pool decks
- Shower areas
- Podium decks
- Patios
- Changing & wash rooms

## Preventing Efflorescence

Efflorescence, the white powdery substance that appear on the surface of concrete and tiles, is a common occurrence that is an eyesore and seriously affects aesthetic appearance.

Efflorescence is caused by a combination of circumstances: soluble salts in the structural slab and screed, moisture dissolving the salts, and capillary action or hydrostatic pressure moving the salt-water solution towards the surface where the water evaporates leaving the unsightly salt deposit behind.

Over time, excessive efflorescence may also cause expansion and pressure build-up in the screed resulting in surface cracks.

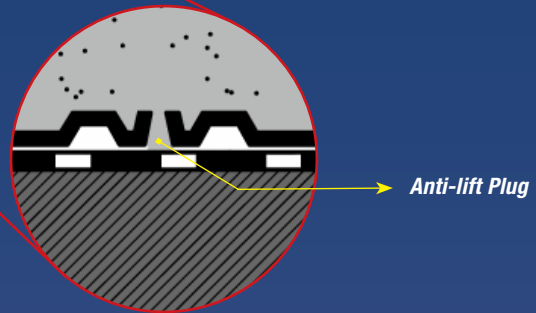
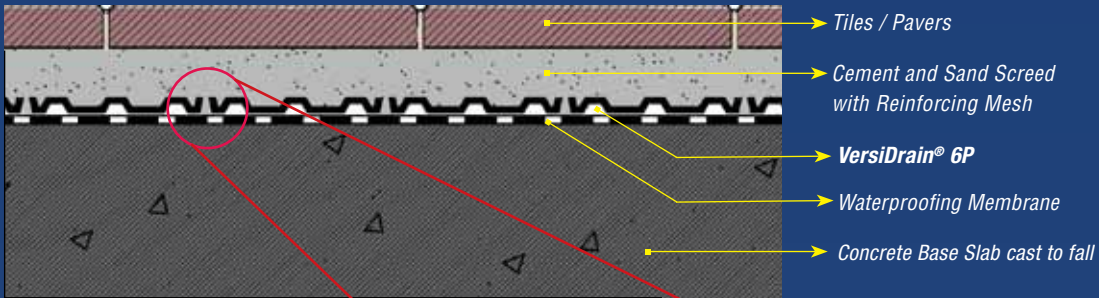
Efflorescence may be removed by pressure jet washing, scrubbing or by use of special cleaning products and acids. However, despite the incurrence of a great deal of time and money, these efforts cannot prevent efflorescence from re-occurring.

The long-term and cost-effective solution lies with breaking the chain of circumstances necessary for efflorescence to occur.



Unsightly efflorescence

## VersiDrain® 6P Deck Detail



### Protecting Waterproofing Membranes

When laid on waterproofing membranes, **VersiDrain® 6P** also provides protection against possible damage caused by labour and equipment during construction.

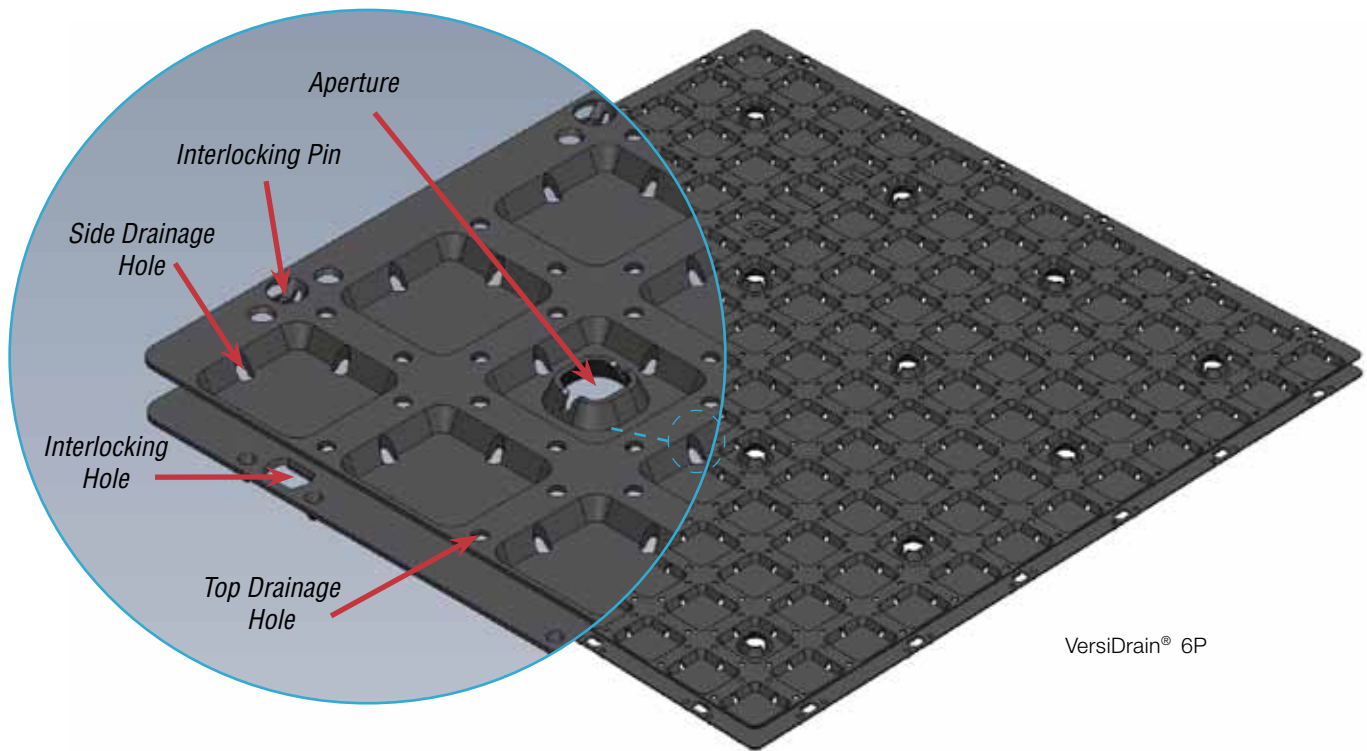
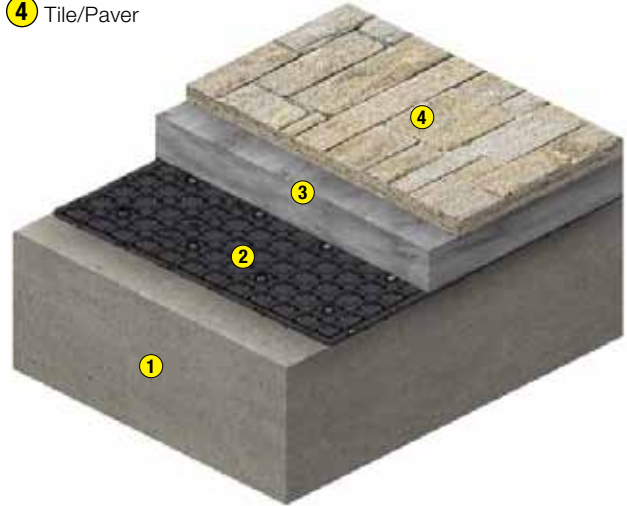
## Projects



# Technical Specifications

Material	Polypropylene
Dimensions	500mm x 500mm
Sheet Thickness	1.2 mm
Overall Height	6 mm
Weight	~3 kg/m <sup>2</sup>
Compressive Strength (unfilled)	> 80 tonne/m <sup>2</sup>
Compressive Strength (sand filled)	> 1500 tonne/m <sup>2</sup> ( with Grade 20 cement and sand screed )
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
Fire Resistance	B2 ( DIN 4102 )

- ① Floor Slab
- ② VersiDrain® 6P
- ③ Cement/Sand Screed with Reinforcing Mesh
- ④ Tile/Paver



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A security hologram has been applied on all our products to ensure that the end-user receives the best quality and original Elmich product.

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