

Permaflow

Permeable by design



Permaflow is a pervious concrete mixture, carefully designed to have a network of interconnecting voids which allow the movement of water, providing the optimal solution for surface and storm water management.

APPLICATIONS

Surface and base applications for pavements, pathways, driveways, swimming pool decks, multi use games areas, car parks, central reservations and decorative surfaces.

KEY BENEFITS

- Improves drainage through unique design when used as part of a water management system
- Ease of installation
- Cost effective solution for use as part of a Sustainable Urban Drainage System (SUDS)
- Reduces risk of flash flooding

DURABILITY AND MAINTENANCE

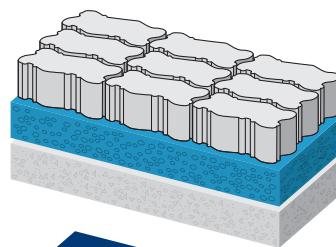
Resistance to Freeze/Thaw: Effectively designed water management systems incorporating Permaflow offer excellent resistance to damage caused by the 'freeze thaw' effect. This is achieved by the efficient movement of water through the system to lower layer management.

Should water be able to settle within the Permaflow material and freeze, the open, interconnected void matrix will overcome any risk of damage from expansive forces caused by freeze thaw.

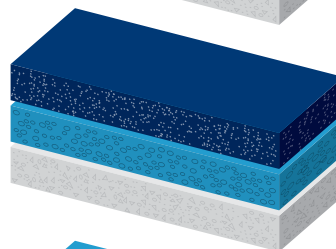
Maintenance: To ensure the flow characteristics of Permaflow continue to perform effectively, a regular inspection and cleaning programme should be established to prevent the void matrix becoming blocked.

Light pressure washing and suction cleaning may be used. Environmental factors local to the product will determine frequency of this maintenance programme.

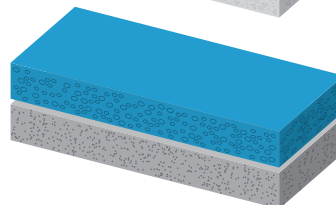
EXAMPLE USES



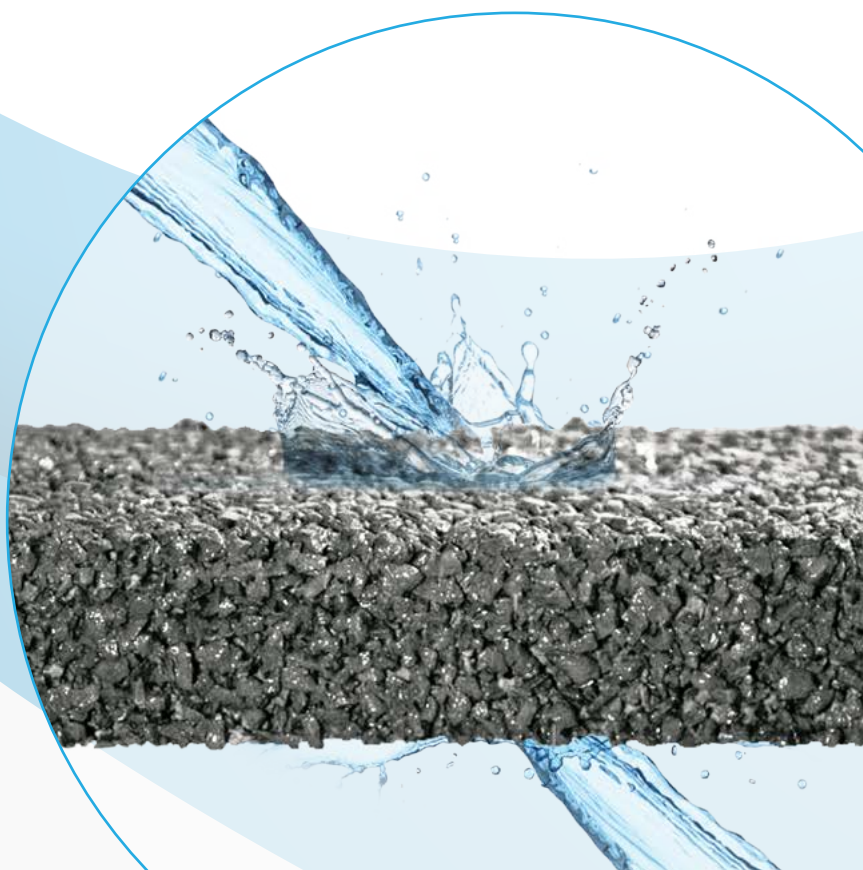
- Permeable block, such as CEMEX ReadyFlow
- Permaflow concrete
- Permeable aggregate, such as CEMEX SudsFlow



- Permeable asphalt, such as CEMEX VIAFLOW
- Permaflow concrete
- Permeable aggregate, such as CEMEX SudsFlow



- Permaflow concrete
- Suitable drainage system



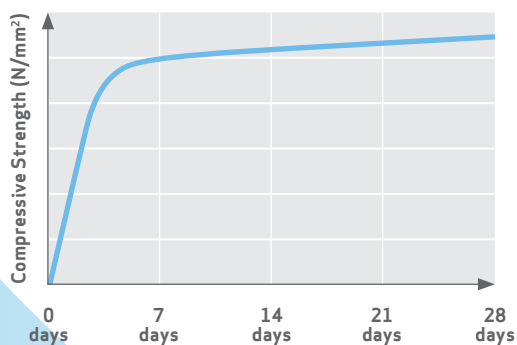
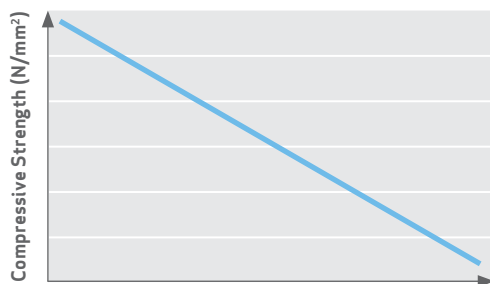
TECHNICAL DATASHEET

TECHNICAL PROPERTIES

	Surface Applications	Base Applications
AIR VOIDS (%)	18 to 30	20 to 35
INFILTRATION RATE (l/ m² /min)	up to 500	up to 1000
FLEXUAL STRENGTH (MPa)	up to 3.5	up to 3.0
COMPRESSIVE STRENGTH (MPa)	up to 30	up to 20
ABRASION RESISTANCE (ASTM C1747)	10 to 30%	10 to 35%

COMPOSITIONAL DESIGN

The compositional design of Permaflow depends largely on two factors – the required water infiltration rate and compressive strength. These two characteristics are intrinsically linked with lower draining mixtures usually having an increased compressive strength, as shown on the graph (top right). The typical strength gain of Permaflow is illustrated on the graph (bottom right).



INSTALLATION

- Easily placed using common placement techniques such as roller screed or paving machine
- Speed of installation is essential to reduce evaporation due to the open nature of the mix
- Water misting is advised where site conditions lead to increased exposure and evaporation
- Joint patterns shall be planned prior to the installation and be at a maximum interval of 5 meters for transverse joints. Joints shall be positioned without delay following material placement.
- Cover with plastic sheeting within 15 minutes following placement and leave in place for 7 days. Where sheeting is not possible due to site limitations, some curing agents may be used – Contact us for more information.



For further information please contact Product Support:

Tel: 0800 667 827

CEMEX UK Materials Ltd

CEMEX House, Evreux Way,
Rugby, Warwickshire CV21 2DT