

# ViaLayer

POLYMER MODIFIED  
SURFACE COURSE

ViaLayer is a Polymer Modified surface course designed specifically for the urban environment. Based on the principles of a true German Stone Mastic Asphalt, it provides excellent durability which means less costly maintenance and resulting traffic delays for busy town and city streets.

Available in 14mm, 10mm and 6mm nominal sizes, ViaLayer is highly resistant to cracking often seen in urban streets whilst offering enhanced resistance to deformation caused by slow moving heavy vehicles such as buses. It also exhibits very low noise from the road/tyre interface as a result of the negative textured surface.

## Applications

Urban streets with high traffic volumes.

Bus lanes.

'Problem' roads which require regular maintenance.

Ideal for heavily trafficked and high stress situations such as roundabouts.

## Features and benefits



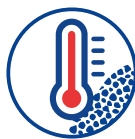
Highly resistant to cracking and deformation



Extremely durable surface course



Reduces expensive maintenance costs



Available in conventional hot mix and warm mix



More sustainable due to enhanced durability



Fully recyclable



Low noise surfacing

## Product availability

ViaLayer is produced at all Cemex Asphalt supply plants. Due to the requirement for Polymer Modified Bitumen, minimum volume and notice period may apply at some locations. ViaLayer is particularly suited for installation between March and September however it is possible to install all year round, advice for winter installation can be provided by Cemex technical department.

For a more sustainable option, ViaLayer is also available as a warm mix ViaLow product which is not only lower in CO<sub>2</sub>, but also reduces fumes, improves site safety, and increases productivity in time restricted working windows associated with urban streets.

## Quality

All our asphalt production facilities are quality assured to BS EN ISO 9001 and our asphalt is UKCA marked through our third-party certification to BS EN 13108 Factory Production Control. Through our National Technical Centre based in Southam, we are committed to bring our customers the highest quality and most innovative products in the industry.



## Delivery

ViaLayer should be delivered or collected using a suitably insulated and sheeted delivery vehicle. An appropriate release agent such as water or vegetable oil should be used in delivery vehicles. Diesel should not be used as a release agent or to clean tools and equipment as it has a detrimental effect on asphalt.

Our network of collect plants sells Leoclean, a heavy-duty cleaner which is ideal for removing mineral oil-based substances such as bitumen and tar. Additionally, we have a wide range of emulsions, sealants, truck sheets and tools to meet your everyday needs.

## Technical information

ViaLayer is an enhanced Stone Mastic Asphalt surface course which is designed specifically for the urban environment. Using a combination of a selected aggregate grading and a high volume of Polymer Modified Bitumen, ViaLayer combats the two main causes of road defects in urban streets - deformation and premature cracking. Most urban streets are constantly subjected to not only heavy traffic, but also associated works from utility operations. The resultant trenches create issues in terms of reflective cracking when overlaid with conventional asphalt mixes,

and these cracks can significantly reduce the life of the asphalt surface. ViaLayer offers the enhanced flexibility required whilst also resisting the impacts of heavy and slow moving vehicles in areas such as bus lanes. Many urban streets were initially built for much lower traffic volumes than those seen today, with little scope for increased thickness. ViaLayer is designed to enhance the pavement strength and reduce the frequency and cost of maintenance interventions.

## Product specification

Design Specification	14mm ViaLayer	10mm ViaLayer*	6mm ViaLayer**
Design Air Voids (%)	Vmax 5.0	Vmax 5.0	Vmax 6.0
Voids Filled (%)	>79	>79	>79
Binder Volume (%)	>14.5	>14.5	>14.5
Deformation Resistance - PD 6691 Table D.2	Level 2	Level 2	Level 2
Sensitivity to Water	>80%	>80%	>80%
Surface Macrotexture (mm)	1.1 - 1.5	0.8 - 1.2	0.6 - 1.0

\* For use on high traffic volumes and high stress areas such as roundabouts

\*\* For use in lower volume areas e.g. housing estates and parking areas

## Installation

Installation should be carried out in accordance with BS 594987. ViaLayer should be installed by paving machine, with hand laying being limited to small, confined areas. Installation should be carried out in accordance with BS 594987. Prior to installation, any cracks in the binder course material should be suitably treated, and any loose or broken material removed. A suitable tanker applied bond coat should be applied in accordance with BS 594987. It is vital to keep ViaLayer as hot as possible prior to installation and final compaction. The minimum acceptable temperature on arrival at the site is 140°C (110°C for ViaLow variant), with final compaction having been achieved before the material has cooled to 120°C (95°C for ViaLow variant).

ViaLayer should not be installed during heavy rain/snow. Laying should cease if the air temperature reaches 0°C on a falling thermometer. Compaction should be carried out as soon as possible after the ViaLayer has been spread. A minimum 8 tonne roller should be used for compaction. Smaller plate compactors/ rammers should only be used in areas not accessible by the roller. 8-10 passes of the roller should be suitable in most applications. ViaLayer should be left to cool before being opened to traffic.

	Nominal layer thickness (mm)	Minimum thickness at any point (mm)
14mm ViaLayer	35 - 50	30
10mm ViaLayer	25 - 50	20
6mm ViaLayer	20 - 40	15

## Maintenance and aftercare

No specific maintenance regime is required for ViaLayer and it should be treated in much the same ways as for any asphalt surfacing.

Although ViaLayer significantly delays the onset of reflective cracking when compared with standard asphalt mixes, such cracking will eventually occur at the pavement surface.

Regular inspections should be carried out to identify these as soon as possible and an appropriate treatment should be carried out.

## Responsibly sourced

Cemex's commitment to sustainable development and ethical and responsible sourcing has been formally recognised through this official accreditation.

The BES 6001 certification complements a range of other ongoing initiatives at Cemex UK to reduce waste, water, energy use and CO<sub>2</sub> emissions, while increasing the use of alternative fuels and by-products in the manufacturing of building materials.



For further information please contact our Asphalt sales department on:

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 **[cemex.co.uk/asphalt-range](http://cemex.co.uk/asphalt-range)**

Cemex is a global leader in the building materials industry providing high-quality, innovative products and exceptional service to both customers and the community in the most sustainable and efficient way possible.

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