

ASPHALT FOR ROADS

HIGHLY VERSATILE FLEXIBLE ASPHALT

VIAFLEX® offers enhanced resistance to both cracking and deformation, the two most common causes of road failure. VIAFLEX offers the ultimate level of durability for most end uses which ensures the longevity of the road pavement.

The improved flexibility of VIAFLEX also makes it the ideal solution for overlaying concrete as part of a composite construction by reducing the impact of reflective cracking often associated with this type of construction.

VIAFLEX incorporates the latest in polymer modified bitumen (PMB) technology and through our network of suppliers, we are able to offer a wide range of tailored solutions to meet the needs for any specific site. The selection of a PMB is often complex with a large range of products available for a variety of applications. Our VIAFLEX range provides you with versatility, as we are able to select the optimum mix to suit your needs.

PRODUCT AVAILABILITY

VIAFLEX 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. VIAFLEX 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.

BENEFITS



Enhanced Flexibility.



Resistant to deformation.



Improved fatigue resistance.



Improved durability.



Tailored to specific site requirements.



Full range of aggregate sizes available.

APPLICATIONS

- URBAN AND RURAL ROADS
- INDUSTRIAL APPLICATIONS
- CONCRETE OVERLAY
- HEAVILY TRAFFICKED AND HIGH STRESS AREAS

VIAFLEX is available as a low temperature alternative with our VIALOW solution. Please contact us for more information to improve your sustainability credentials.



Go CarbonNeutral®

Our VIALOW zero asphalts are CarbonNeutral products in accordance with the CarbonNeutral protocol, the leading global framework for carbon neutrality.





TECHNICAL INFORMATION

VIAFLEX is an enhanced asphalt concrete material which can be tailored to meet the needs of any specific site. The importance of understanding the potential failure modes of a specific site cannot be underestimated and through collaboration with our bitumen supply chain, CEMEX is able to provide an engineered solution for our customer needs. VIAFLEX is available in a full range of sizes and is supplied as 32mm base, 20mm binder course and 14, 10 and 6mm surface course variants.

Typical properties for VIAFLEX are:

	BASE	BINDER COURSE	SURFACE COURSE
Air Voids	< 7%	< 6%	< 6%
Water Sensitivity	> 70 %	> 80%	> 80%
Deformation Resistance (PD 6691 Table B.4)	Level 2	Level 2	Level 2
Stiffness	4000 MPa	3750 Mpa	3000 Mpa
Texture Depth	-	-	> 0.7 mm
Richness Modulus	-	≥ 3.6	≥ 3.6

Surface course mixes are available in a range of aggregate PSV's to suit specific site requirements.

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.



INSTALLATION

VIAFLEX should be installed by paving machine, with hand laying being limited to small, confined areas.

The recommended installation thickness for VIAFLEX are:

NOMINAL AGGREGATE SIZE (MM)	NOMINAL LAYER THICKNESS (MM)	MINIMUM THICKNESS AT ANY POINT (MM)
32mm Base	70 - 140	55
20mm Binder Course	60 - 130	50
14mm Binder Course	50 - 120	40
10mm Binder Course	40 - 100	30
14mm Surface Course	40 - 50	35
10mm Surface Course	30 - 50	25
6mm Surface Course	25 - 40	20

DELIVERY

VIAFLEX 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 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.

VIAFLEX should be installed on a suitable substrate. When overlaying concrete, any cracks should be suitably treated, and any loose or broken material removed. It is recommended that tanker applied bond coat is used on the substrate and between layers of VIAFLEX.

It is vital to keep VIAFLEX as hot as possible prior to installation and final compaction. The minimum acceptable temperature on arrival at the site is 140°C, with final compaction having been achieved before the material has cooled to 120°C. VIAFLEX 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 VIAFLEX has been spread. A minimum 8 to 10 tonne rollers should be used for compaction. Vibrating rollers are permitted where the thickness requires, however care should be taken if used. 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. VIAFLEX should be left to cool before use, and ideally not trafficked for 24 hours.





MAINTENANCE & AFTERCARE

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

When used as a concrete overlay, VIAFLEX will reduce the onset of reflective cracking when compared with standard asphalt mixes, regular inspections should be made in order to identify such cracks and these should be treated as soon as possible once identified.

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 CO₂ emissions, while increasing the use of alternative fuels and by-products in the manufacturing of building materials.



The information shown in this datasheet is intended to provide guidance on our products and our knowledge of their benefits. Whilst CEMEX strives to ensure that the information is accurate, we are unable to accept any liability for its use or suitability for a particular application given its use by a third party outside of our supervision.

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