

Durafalt PMB®

Technical data sheet

Durafalt PMB® is our premium, polymer modified stone mastic asphalt (SMA) thin surfacing system (TSCS). It is produced in accordance with the Specification for Highway Works (SHW) 942 and was developed for motorways and other major highways.

Durafalt PMB uses high quality, high polished stone value (PSV) aggregates and our specially developed polymer modified bitumen (PMB). Durafalt PMB provides excellent levels of noise and spray reduction, while yielding high levels of skid resistance with a texture that is retained throughout its service life. Durafalt PMB is also tough enough to stand up to heavy traffic yet provide an ultra-smooth ride.

Durafalt PMB can also be produced using Heidelberg Materials' era 140 warm mix process, meeting the requirements of current National Highways major network specifications.

Installation is by Heidelberg Materials' contracting division or licensed laying contractors in line with Heidelberg Materials' own installation manual in accordance with SHW Clause 942. Durafalt PMB comes with a 5-year guarantee underwritten by the contractor.

Use this product for

- Highways/motorways
- Major projects
- Major local authority networks

Benefits

- 5-year performance guarantee
- Enhanced durability
- Excellent resistance to deformation
- Enhanced ride quality
- Reduced noise
- Excellent spray reduction
- Reduced CO2 when supplied as era 140
- 100% recyclable

Also available with the following options: era 140®/CleanAir®/RAP

Please see asphalt product matrix for further information or contact technical:

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Durafalt PMB technical data

Coarse aggregate	
Los Angeles abrasion value	30 max
Aggregate abrasion value	As specified in SHW Clause 942 (Appendix 7.1)
Flakiness index	20 max
Nominal sizes	10mm; 14mm
Binder	High performance polymer modified bitumen (PMB)
Layer thickness. Details of constituent quality and layer thickness shown below	
10mm nominal size	25 – 50mm
14mm nominal size	35 – 50mm
Surface texture (on installation)	
10mm nominal size	1.1 – 1.6mm
14mm nominal size	1.3 – 1.8mm
(All NH Clause 942 Level 3)	
Road and laboratory test results	
Torque bond	Typical figures +800 KPa
Noise reduction	NH Clause 942

Typical performance figures

Material property	Test specification	Typical result
*Design void content	BS EN 12697-6	Vmin 1.0% – Vmax 5.0%
Water sensitivity	BS EN 12697-12 Method A (ITSR) BS EN 12697-23	≥ 80%
RTPD (wheel tracking)	BS EN 12697-22 Procedure B WTS in Air	≤ 0.6mm/10 ³

*Where specified in appendix 7/1.



ENHANCED RIDE QUALITY



RESISTANCE TO DEFORMATION



INCLUDES RECYCLED CONTENT



REDUCED CO₂



FLEXIBLE



CRACK RESISTANT



PREVENTS WATER INGRESS



ENHANCED DURABILITY



INCREASED STIFFNESS