

Tuffgrip®

Technical data sheet

Tuffgrip® is our established thin surface course system (TSCS) and is produced in accordance with the Specification for Highway Works (SHW) 942. It was developed for motorways and other major highways.

Tuffgrip uses high quality, high polished stone value (PSV) aggregates and our specially developed polymer modified bitumen (PMB). Tuffgrip is tough on noise, skid resistance and wet weather spray with a texture that is retained throughout its service life. Tuffgrip is also tough enough to stand up to heavy traffic yet provide an ultra-smooth ride. Tuffgrip is laid by Heidelberg Materials' contracting division and comes with a 5-year guarantee underwritten by the contractor in accordance with SHW Clause 942.

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

Installation

Installation by Heidelberg Materials.

Benefits

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

Available with the following options:

era®/CleanAir®/CarbonLock®/AgeLast®/RAP

Use this product for

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



Tuffgrip 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 (6mm 30 max)
Nominal sizes	6mm; 10mm; 14mm
Binder	High performance polymer modified bitumen (PMB)
Layer thickness. Details of constituent quality and layer thickness shown below	
6mm nominal size	20 – 30mm
10mm nominal size	25 – 50mm
14mm nominal size	35 – 50mm
Surface texture (on installation)	
10mm medium texture	1.1 – 1.6mm
14mm medium texture	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	≤ 1.0mm/10 ³

*Where specified in appendix 7/1.

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

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**SKID
RESISTANCE**



**RESISTANCE TO
DEFORMATION**



**ENHANCED
RIDE QUALITY**



**NOISE
REDUCTION**



**SPRAY
REDUCTION**



**REDUCED
CO₂**



**INCLUDES
RECYCLED CONTENT**