

Hardicrete™ is a BBA certified (Agrément Certificate Number 88/1969) Grouted Macadam surface course designed to withstand intense traffic loadings and fuel / leachate contamination. The company is certified to National Highways Sector Scheme 16 for Quality Management in Highways Works.

Hardicrete[™] consists of an open graded receiving course with a controlled void content, typically laid at a 40mm depth, filled with a resin cementitious grout manufactured by Miles Macadam. It is a flexible, jointless, heavy duty surface course with fuel resistant properties and high load capabilities to minimise rutting or deformation. Hardicrete's receiving course is a bespoke design of a single size 14mm aggregate with reduced binds and bitumen to allow more cementitious grout to penetrate the matrix. This enhances the overall durability of the material and allows for a higher percentage of grout than Hardipave[™]. PSV and AAV of the aggregate can be specified upon design.

HARDICRETE[™] benefits

- Hybrid between asphalt and concrete
- High compressive strength
- Superior resistance to deformation and rutting
- High resistance to fuel/leachate contamination
- High resistance to temperature extremes
- Rapid installation

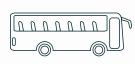
Suitable for:











Bus Infrastructure

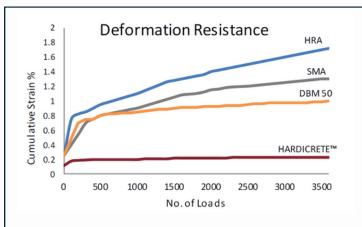
Ports

Industrial Facilities

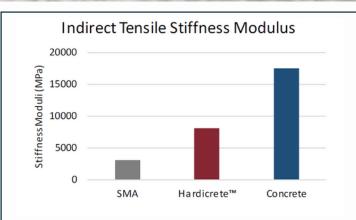


HARDICRETE

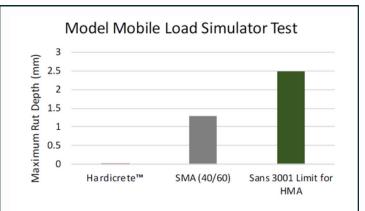
DATASHEET



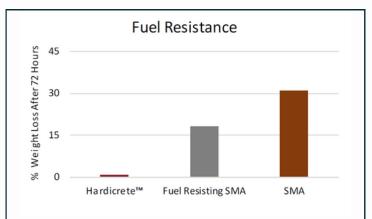
A Cyclic Compression Test under dynamic loading shows Hardicrete™ to have a far superior resistance to permanent deformation than conventional materials.



An Indirect Tensile Stiffness test shows deformation and temperature susceptibility. These results were recorded at 20° and show Hardicrete™ as a hybrid between asphalt and concrete.



An MMLS Test is designed to imitate real world conditions of accelerated loadings. It measures the impact of moisture, resistance deformation, longitudinal profile and visual surface condition



The Hardicrete™ system shows no degradation when subjected to a chemical attack from diesel or aviation fuel. It has a significantly higher tolerance to fuel than conventional materials.

HARDICRETE™technical data

Nominal Size	14mm
Layer Thickness	35 - 50mm
Stiffness (20°)	8657 MPa
Water Sensitivity (retained stiffness)	Min. 90%
Curing Time	48 hrs

Wheel Tracking (BS EN 12697-22

Exceeds requirements for surface course materials - Procedure B in Air) (PD 6691:2022)



Coloured aggregates can be supplied