



## Datasheet: Hardipave™

**Miles Macadam** manufacture and install BBA/HAPAS certified Grouted Macadam surfacing materials, which provide a superior treatment to problem sites.

**Hardipave™** is a BBA/HAPAS certified (HAPAS Certificate Number 06/H120) Grouted Macadam surface course designed to withstand intense traffic loadings and fuel / leachate contamination. Hardipave™ has been supplied and installed by its manufacturer, Miles Macadam, since 1995, holding a HAPAS certificate since 2006.



### Product Description

Hardipave™ was developed to broaden the range of Grouted Macadam options and design alternatives. Hardipave™ consists of an open graded receiving course with a controlled void content, laid between 35-50mm, and filled with a 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.

Hardipave™ is accredited for use on the highways, and ideally suited to high stress sites, for example:

- Bus lane and laybys
- Roundabouts and junctions
- Industrial and distribution facilities
- Waste Sites
- Ports

For further information, please contact:

MILES MACADAM LTD. Malpas Station, Hampton, Cheshire SY14 8LU  
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Carbon  
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Organisation



## Quality

Miles Macadam's manufacturing and installation are ISO 9001:2015 accredited and the processes are certificated by the BBA. The company is also certified to National Highways Sector Scheme 16 for Quality Management in Highways works and is a member of the Road Surface Treatments Association (RSTA).



## Permeability

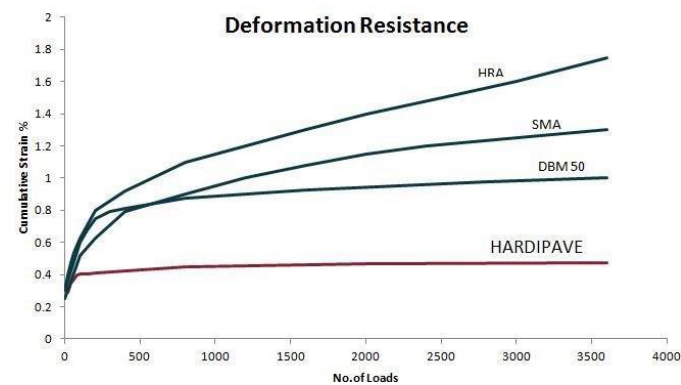
Hardipave™ is a hybrid between asphalt and concrete with fast installation and minimal downtime. It has a coefficient of permeability  $1.1 \times 10^{-13} \text{m/s}$  in line with standard concrete.

Hardipave™ has a high heat resistance and is therefore less temperature susceptible than traditional bituminous materials.



## Deformation Resistance

Independent laboratory testing has shown Hardipave™ to have a more superior resistance to deformation compared to standard flexible surfacing materials.



## Fuel Resistance

The resin cementitious grout used in the Hardipave™ system showed better resistance to chemical attack from diesel or aviation fuel than conventional surface course materials.

## Stiffness

Hardipave™'s unique stiffness places it between concrete and conventional surface course materials.

## Skid Resistance

PSV and AAV of the aggregate can be specified upon design. Texture depths up to 1.5mm can be achieved. Initial skid resistance can be enhanced with the addition of fine aggregate to the surface or by bead blasting.

## Colours

Hardipave™ can be supplied in the following colours:

- Black
- Buff
- Green
- Red

Coloured aggregates can also be supplied subject to availability.

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