



DURAFLOW POROUS ASPHALT

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SUSTAINABLE BITUMINOUS SURFACING SOLUTION

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Description

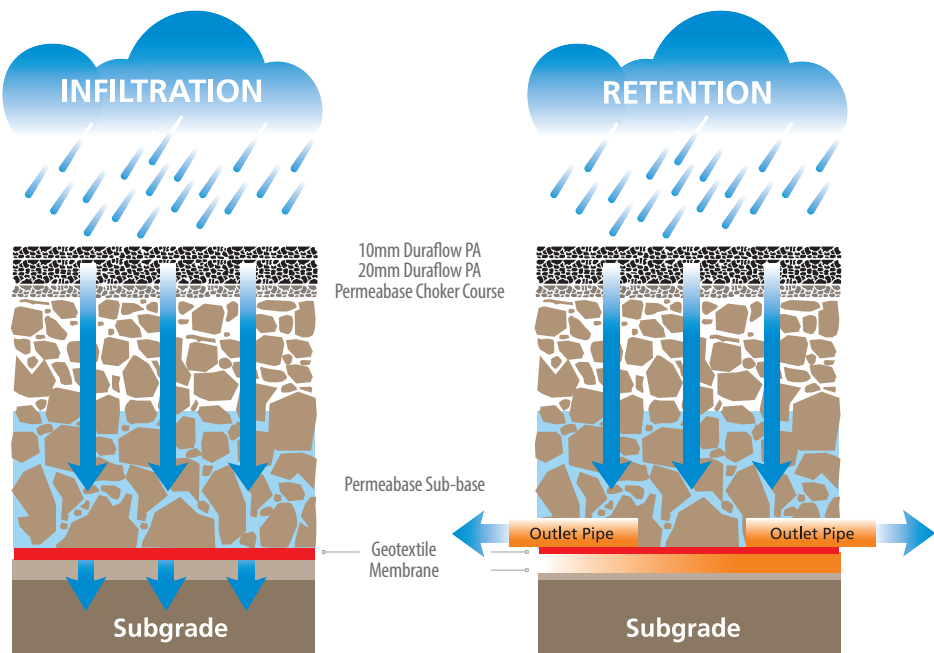
Duraflow™ porous asphalt has been designed by Roadstone for use as a surfacing solution for porous pavements and Sustainable Urban Drainage System (SUDS) applications. Duraflow™ has been designed to allow surface water to pass through it which then percolates into a stone subbase layer, Permeabase™. Water is discharged at a controlled rate into a water attenuation drainage system or infiltrates through other layers into the sub soil. Duraflow™ surface course has been designed by Roadstone using polymer modified bitumen and carefully selected high quality aggregates to maximise performance and durability. Roadstone can also supply Duraflow™ open graded base and binder course materials for complete porous pavement designs. The significant storage capacity of Porous asphalt pavement systems provides a cost-effective drainage solution for capturing and controlling the release of surface water.

PRODUCT SPECIFICATION

Duraflow™ porous asphalt is manufactured in accordance with the requirements of IS EN13108-7: Porous Asphalt and NSAI Standard Recommendation (SR) 28. This product is CE marked with conformity assessment operated in accordance with IS EN 13108-20: Type Testing and IS EN13108-21: Factory Production Control to a System 2+ certification.

DRAINAGE CAPACITY

The drainage capacity of Duraflow™ porous asphalt can be measured using the hydraulic conductivity test which shows how fast water drains away from the surface. The hydraulic conductivity of Duraflow™ is 0.2/s



Uses and Applications

Duraflow™ can be used for a wide range of applications including:

- Road Surfacing
- Car Parks
- Sports Surfaces
- Schools

DRAINAGE SYSTEM

Drainage System When selecting the type of drainage system (infiltration or retention) at the design stage, it is important that the sub soil permeability and California Bearing Ratio (CBR) is considered. It is possible to have a combined drainage system for porous pavement systems. An appropriate Geotextile/Geogrid must also be selected for the elected system.

MIX PERFORMANCE

Duraflow™ porous asphalt is designed in Roadstone's INAB accredited R&D facility to provide a tough and durable surfacing solution



PAVEMENT LAYERS (MIN THICKNESS)*

For car and light vehicle loadings:

- Duraflow™ surface course - 40mm
- Duraflow™ binder course - 80mm
- Permeabase™ choker course - 30mm
- Permeabase™ sub base - 220mm

*The ultimate
solution for porous
pavements and
SUDS applications*





FEATURES AND BENEFITS

- Sustainable environmentally friendly solution for rainwater management
- A reduction in the need for permanent drainage, associated ironworks, piping, surface water sewers and balancing ponds
- Quick to install
- Facilitates re-use of rain water
- Drains the water quickly, eliminating standing water
- Reduced surface spray
- Less chance of ice forming
- Acts as a balancing pond/underground reservoir to reduce the risk of flooding
- Filters pollutants from the water
- Easy maintenance using appropriate cleaning plant, without the need for any reconstruction or disturbance to the pavement
- Duraflow™ is 100% Recyclable
- Specially designed using polymer modified bitume and high quality aggregates

REDUCING OUR CARBON FOOTPRINT

Roadstone continuously strives to achieve reductions in the carbon footprint of our product range through our certified management systems, ISO50001: 2011 (Energy Management System) and ISO14001: 2004 (Environmental Management System). Reductions in our Carbon Footprint have been achieved through new product development, process and energy efficiencies, recycling and reductions in waste.



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