



Surfix[®] PS

A high performance emulsion for initial surface treatment

Surfix[®] PS is a high solids, rapid setting emulsion containing virtually no hydrocarbon solvents. The advanced formulation enables rapid overlay, improves hot weather performance and extends the cold weather primer-sealing season. Surfix[®] PS provides all the safety and environmental benefits normally associated with the handling and application of bitumen emulsions, while promoting far superior primer-sealing performance.

What is Surfix[®] PS?

While cutback bitumen traditionally uses highly volatile solvents to decrease viscosity, Surfix[®] PS is a bitumen emulsion designed to provide a high performance alternative for use in primer-sealing treatments.

Surfix[®] PS:

- Eliminates the need for solvents and cutters greatly reducing overall energy consumption
- Reduces emissions of carbon dioxide and volatile organic compounds associated with the use of cutback bitumen
- Eliminates problems like reflective cracking, flushing and bleeding – caused by trapped hydrocarbon solvents when using primer seals reliant on cutters



Surfix[®] PS is a registered trademark product of Fulton Hogan.

What sets Surfix® PS apart?

Surfix® PS is designed for primer-sealing on well compacted granular pavements. It allows for resurfacing with the final overlay the next day as it has been specifically formulated to eliminate the problems caused by trapped hydrocarbon solvents.

Some additional benefits are:

- Improved resistance to reflective cracking in cement treated bases (CTBs) compared to cutback binders
- Improved hot weather performance (reduced temperature susceptibility)
- Improved resistance to lower temperature cracking
- Improved aggregate retention
- Reduced risk of washout by unexpected rainfall soon after application
- Conserves non-renewable petroleum hydrocarbon resources, reduces volatile organic compound emissions



Surfix® PS exhibits excellent stone adhesion and torsional recovery.

Recommended applications?

- Primer-sealing of well compacted new pavements, including cement treated bases (CTBs)
- Primer-sealing in autumn/winter or when the primer-seal must be sealed within six months of placement
- Primer-sealing of roads where improved binder properties are required to reduce stone displacement
- Cool weather primer-sealing where good adhesion to stone and pavement is not possible with conventional bitumen spray seals

How does Surfix® PS work?

Surfix® PS is an emulsion created by the dispersion of bitumen in water, reducing the need for cutter to decrease viscosity. An emulsifying agent is used to aid dispersion, which allowing water to be displaced from the surface during destabilisation and creating a seal. The addition of polymer modification as part of the Surfix® PS design enhances its properties to provide excellent performance under tough conditions. These polymers increase the adhesion between the seal and aggregate surface, by increasing elasticity and firmness.

How to apply Surfix® PS?

Surfix® PS is only available in bulk and should be sprayed in the range of 75-90°C using a conventional bitumen sprayer to achieve satisfactory emulsion distribution and coverage.

Size of Aggregate	Rate of Spread of Aggregate	Application Rate for Emulsion (wet application)
7mm	140 – 150m ² /m ³	14 – 18 l/m ²
10mm	125 – 145m ² /m ³	17 – 21 l/m ²

Traffic speed must be controlled and kept under 40km/h in the initial cure period for typically around 45-60 minutes under fine weather conditions and up to 2 hours under cold conditions. As with all emulsions, maximum strength in the residual binder is achieved with the complete removal of water. As this is essentially by evaporation and rolling, the time taken depends on the weather conditions prevailing at the time of sealing and can be up to several days afterwards.

Class leading Surfix® emulsions are available from all Fulton Hogan emulsions plants across Australia. Our advanced processes ensure consistency, quality and performance for your next project.

Note: Surfix® PS must not be mixed with anionic emulsions such as ARS or ASS types due to chemical incompatibility. Care is also required in returning reheated product to existing storage.

For further information or you can visit www.fultonhogan.com or contact your nearest Fulton Hogan office:

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