GripPhalt™

The safe and environmentally friendly asphalt solution

Not only is GripPhalt™ a good choice for the environment because of its high percentage of recycled and renewable material, its superior skid resistant properties also make it a safer alternative for high braking and problem traffic areas.

Improved skid resistance performance

With 15% – 20% improvement in skid resistance over standard asphalt mixes, GripPhalt is a safer alternative for high braking and high surface stress traffic areas. More importantly, GripPhalt's skid resistance does not diminish over time like most natural aggregates do.

Confirmation of GripPhalt's skid resistance properties has been measured in VicRoads trials. Details of these trials can be obtained by contacting the Fulton Hogan Technical Department.

A sustainable, environmentally friendly choice

GripPhalt includes a high percentage of recycled and renewable material. The steel slag used in GripPhalt is a by-product that commonly would end up as landfill. The artificial aggregate made from slag, is used as a direct replacement of the coarse aggregate component of the asphalt mix. When combined with the addition of Recycled Asphalt Product (RAP), the total recycled content of the mix can be 60% – 80% for dense graded asphalts, and 80% – 90% for stone mastic and open grade asphalt mixes.

GripPhalt mixes can also be manufactured using 'warm asphalt technology' to further reduce the amount of CO^2 emissions produced in the manufacturing process.

Additionally, slag aggregate production doesn't require drilling and blasting like natural aggregate and transportation in production is minimised. Studies have shown that the average weighed emissions of GripPhalt production could be up to 70% lower, when compared to natural aggregates.

GripPhalt is ideal for any pavement surface where improvements in skid resistance will improve safety, including steep gradients and winding roads, approaching traffic lights, school crossings, roundabouts, and other high braking areas.

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GripPhalt™

Technical properties

The added strength and durability of manufactured steel by-products provides GripPhalt with distinct performance, safety and environmental advantages over natural aggregate surfaces.

Typically 10% - 20% denser than natural rock aggregate, with an excellent cubical shape, GripPhalt's strong interlocking properties minimise potential sheer failures and improve resistance to surface rutting.

Tested extensively by Fulton Hogans NATA accredited laboratories using the standard VicRoad's mix design specification requirements, GripPhalt has consistently shown to outperform or equal standard road mix properties.

Additionally, because it holds its temperature better than standard asphalt mixes, GripPhalt allows for an improvement in temperature distribution when paving, providing improved workability and a superior quality finish. Even after years of heavy road use, a GripPhalt surface will maintain its durability, strength and superior skid resistance properties.

Frequently asked questions

Will GripPhalt rust?

No, GripPhalt does not rust as any metallic material is removed during the production process.

Does GripPhalt look different to regular asphalt?

No, as the aggregate is similar in colour and shape to natural aggregate there is no difference to the aesthetics of the finished pavement.

Where has GripPhalt been used?

For many years, steel slag mixes have been produced around the world and used extensively by Fulton Hogan in Australia. In Victoria, Fulton Hogan has conducted various trial sites with Port Phillip council and VicRoads. These trial sites are continually monitored for performance and results have been on par or better than our standard asphalt mixes.

Where should GripPhalt be applied?

GripPhalt is ideal for any pavement surface where improvements in skid resistance will improve safety including approaches to traffic lights, school crossings, roundabouts, steep gradients and other high braking areas.

GripPhalt being placed at Westall Asphalt Plant in Clayton South, Victoria.

Confirmation of GripPhalt's skid resistance properties has been measured in VicRoads trials.

GripPhalt is produced using a by-product from the manufacture of molten steel.

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