



Revive

Higgins Revive is a gilsonite fortified, bitumen emulsion that is designed as a surface enrichment spray treatment for asphalt and chip seal. The unique blend of gilsonite, bitumen, diluents and peptisers act to restore asphalt to its original appearance and condition. Revive is a cost-effective rejuvenator that reduces the rate of deterioration and whole of life costs.

As asphalt surfaces age, bitumen is lost through UV oxidation, trafficking and weathering. Oxidation causes the remaining bitumen to become hard and brittle, which if left unchecked will lead to ravelling, cracking and eventually pot-holing. Gilsonite is a natural bitumen resin with a unique ability to restore ductility and reverse the effects of ageing.

HIGGINS REVIVE HAS 3 MODES OF ACTION

- Bitumen that is lost from the surface is restored with fresh, unaged bitumen.
- Surfactants and diluent penetrate into the asphalt or chipseal, and softens the aged, brittle bitumen
- Gilsonite resin, plasticisers and peptisers reverse the effects of aging, making the bitumen more ductile and flexible.

WHERE TO USE

- Enrichment and rejuvenation of aged asphalt on motorways and airport runways.
- Enrichment and rejuvenation of aged chipseal or asphalt that may be prone to scabbing or ravelling
- Enrichment and rejuvenation of aged, open graded porous asphalt (OGPA) that may be susceptible to ravelling
- Sealing of fine cracks in aged asphalt and chipseal that would eventually lead to pot-holing.
- Higgins Revive extends pavement life by up to 5 years, while offering substantial environmental benefits.
- The original black surface is restored, giving asphalt an “as new” appearance.

APPLICATION AND DESIGN



Storage Life: Up to 60 Days



Storage Temperature: 20–70°C



Spraying Temperature: 50–70°C



Spray Rates: 0.4–0.8 L/m² (diluted)



Air and Pavement Temperature: 15°C and rising



- The required spray rate used is dependant upon the surface porosity and texture
- Higgins Revive can be diluted with an equal part of potable water to assist with application
- Pavement temperatures should be at least 15°C and rising
- Only start application if no rain is forecast for at least the next 24 hours
- Cure time ranges from 1–8 hours and is dependent upon the pavement temperature, surface porosity, and application rate
- The pavement surface should be dry and swept clean of dust and lichen
- Application of 0.2–0.4 kg/m² of fine sand can improve early skid resistance
- A Safety Data Sheet (SDS) is available upon request.

Typical Properties of Revive

Title	Method	Property
Residual Binder Content	In-House Method	60%
Brookfield Viscosity (25°C)	ASTM D2196	100 mPa.s
Median Particle Size	In-House Method	2 micron

For more information please contact:

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To the best of our knowledge the information contained in this document is correct. Since the products described herein are being continuously improved, the specified properties may vary as improvements are made to production processes and product quality. This document may be revised at any time.