

## BENEFITS OF USING A SLURRY SURFACE TREATMENT ON FOOTPATHS

When footpaths reach a point where the surface is deteriorating and if left may lead to safety issues and may incur greater expense to rectify in the future we carry out sealing works to certain footpaths. These footpaths do not require a reconstruction of the footpath so the Council instruct Ringway Infrastructure Services (RIS) to carry out a specialised surface resealing treatment.

The benefits of the application of a surface treatment compared with “traditional processes” of removing and replacing the existing footpath surface includes:

- Reduction in the generation of waste material
- Reduction in the production and use of natural resources
- Reduction in transportation and carbon footprint
- Reduction in energy use (electricity/gas)
- Economical to install, highly cost-effective to use.
- Reduction in maintenance costs
- Easy, quick application reduces disruption to residents
- The new surface is ready for use within an hour of application
- Effective use of highways budgets
- Prolongs the life of the existing footpath
- Enhances the appearance of the footpath by improving the surface texture, uniformity and colour

## TECHNICAL DETAILS

As a versatile footpath surface treatment system, slurry seal provides a durable bituminous mixture to meet the needs of variable existing surface conditions and provides a textured surface, filling of cracks and voids, sealing weather-tight, and is durable for a number of years.

The principal materials used to create slurry seal are aggregate, asphalt emulsion, and filler, which are mixed together according to a laboratory's design-mix formula. Water is also added for workability.

Asphalt emulsions serve as a binder, holding the crushed aggregate together and bonding the new slurry surfacing to the old surface over which it is being applied, and a number of mixes of emulsions and aggregates are available to meet the conditions, specifications, and requirements of individual projects.

The aggregate used is clean, crushed and graded. The asphalt emulsion is a three-part system consisting of asphalt, water, and emulsifier. Fillers such as Portland cement, hydrated lime, or aluminum sulfate liquid are often used in small quantities as stabilizers or chemical modifiers.

Slurry is mixed in special mixing units on site and is spread evenly onto the existing surface by hand application.