

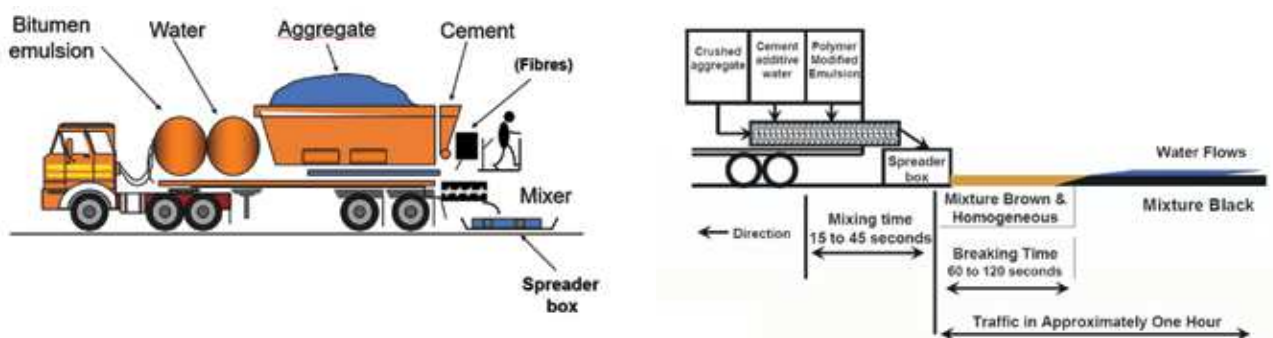


MICROSURFACING

DELIVERING SUSTAINABLE CONSTRUCTION SOLUTIONS

A low carbon alternative to conventional hot surfacing treatments.





With increasing focus on sustainable procurement, COLAS Microsurfacing solutions offer a cold applied, low carbon alternative compared to the conventional hot surfacing treatments.

By reducing the output of energy, emissions and waste, COLAS are able to aid clients in significantly lowering their carbon footprint.

Colmat Microsurfacing is specially formulated so that it can be:

- Applied in 5mm, 7mm, or 10mm aggregate blends – dependent on texture requirements.
- Used as a single coat wearing course or a double coat void filling, regulating or correction treatment.
- Specially designed by our engineers to suitable treat any bituminous or concrete surface.

Microsurfacing for residential or urban roads

- Cost effective maintenance application to preserve existing pavements and extend service life
- No loss of curb reveal and no impact on existing drainage
- Provides a smoother, safer surface with excellent skid resistance
- Durable impervious surface
- Reduced traffic disruption
- Can be utilised to restore pavement profile and shape
- Zero waste – Lower carbon footprint



Colmat for Airfields

“Colmat” is the product name of the Colas Solutions advanced Polymer Modified Microsurfacing systems. Microsurfacing is a generic term used for proprietary Slurry surfacing products. Colas worldwide are highly experienced in designing & applying various Colmat treatments to suit individual runways & taxiways. Colas UK technical have been instrumental in co-designing an approved specification for runways & taxiways in conjunction with the Defense Infrastructure Organization in the UK. Colas Solutions have now introduced this process, along with a wealth of experience into Australia, in order to provide environmentally friendly, less disruptive, competitive alternatives to conventional treatments.

COLMAT 5mm:

As a single coat application, this process is primarily used on Asphalt or Concrete pavements as a preventative measure to extend the lifespan of existing runways, taxiways or aprons, that have oxidized over time or are showing signs of deterioration despite maintaining a reasonable profile. This should be applied to ageing Asphalt or Concrete prior to any significant loss of existing coarse aggregate, in order to reduce the risk of F.O.D. The treatment can be effective in sealing fine embrittlement cracks that may be present. Although only a 5mm aggregate blend the finished texture depth will be around 1.5mm.





Application of 5mm Microsurfacing on existing Asphalt



Rapid application & minimum disruption

Colmat 5mm application is a swift process, with typical production levels of above 25,000m² per shift & an initial curing period of around 30 minutes. All materials are batched through specialist computerized equipment to ensure quality, efficiency & consistency, which is backed up by Colas Solutions QA. The nominal thickness being around 5mm will seal in the existing surface, with normal life expectancy to be in excess of 5 years. The treatment can be re-applied when required, on the top of the existing Colmat.

COLMAT 7 or 10mm:

Colmat 7/10mm has been designed to treat Airfields & Taxiways with a greater level of deterioration or deformation. The design advised by experienced Colas Solutions surveyors would normally be a 2-coat application with a nominal 15m thickness. The 7 or 10mm base would be applied as a correction course to alleviate any wheel rutting or deformities. The wearing course can be applied after 24 hours & can be either the 5,7 or 10mm system. Curing time remains the same for each application of Colmat.



During application of Colmat 7mm



Colmat for Roads & Footpaths

Colas worldwide has years of experience and expertise in repairing, protecting and extending the usable lifespan of infrastructure roads, footways and other surfaces. Colas Solutions Australia have recently invested in the latest technology, expertise, process & equipment to meet the needs of a rapidly growing market in Australia. This has cumulated into performing superbly on several major contracts across the country, including Main Roads, town streets, Cul-de-Sacs & runways.

When road surfaces develop ruts and deformations, have water problems and where skid resistance starts to fail, our affordable, innovative and unique specialist surface treatment “Colmat” will help maintain safety standards and extend the life of your road or footpath by up to 10 years.

Colmat innovative surface treatments are flexible and can be prepared to meet your individual site requirements. They are available in 5, 7 or 10mm aggregate gradings & can be used as a 5 or 7mm single coat application for lower traffic counts as a preventative solution to deterioration, or a regulatory / rut correction course can be applied prior to the Colmat wearing course for sites with a higher level of deterioration, correction requirements or heavy vehicle usage.

Our range of Colmat Microsurfacing treatments offer several benefits:

- Seal & protect the existing surface
- Improve the rideability, profile & aesthetics
- Quick & easy to apply, minimum preparatory work required
- Cold applied, low carbon footprint, minimum waste materials, low cost
- Minimum traffic disruption
- Improved texture / skid resistance
- Can be batched & hand applied to footpaths
- Low traffic noise
- Rapid curing, open to traffic typically within 10 minutes
- All materials contained & batched in the specialist Machine on-site
- Minimal loose chippings, minimal aftercare



Before & after hand applied footway Microsurfacing



Colmat 7mm single application



Unique Specialist Computerized equipment

All our Colmat treatments are subject to our thorough Quality Assurance process & all Colmat treatments carry our standard 12 month maintenance warranty.

Our 2 coat 7mm process is typically a 15mm nominal thickness, which equates to around 24kg/pm², although rutting can be filled up to 30mm in 1 pass with the same material. Variable application rates are always available to cover individual needs. Our experienced surveyors will design & recommend a Colmat process to suit.