



West Australia

MICROSURFACING

DELIVERING SUSTAINABLE CONSTRUCTION SOLUTIONS

With increasing focus on sustainable procurement Colas Micro surfacing 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.

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 smooth safer surface
- Durable impervious surface
- Excellent skid resistance
- Can be utilised to restore pavement profile and shape
- Aesthetically similar to an asphalt finish at a lower cost based on application rates



ELASTOMER MODIFIED MICROSURFACING EMULSION



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DESCRIPTION

COLMAT L is a specially formulated quick set cationic polymer modified bitumen emulsion designed to be used in COLMAT L Microsurfacing System, a Colas microsurfacing application.

USES

COLMAT L Microsurfacing System is a cost effective remedial treatment for improving the road profile and skid resistance of an existing blacktop surface or concrete pavement. The system may be applied in a single treatment of 5 – 20 mm thickness on urban streets, highways and airports carrying a wide range of traffic.

PROPERTIES

The functional properties of COLMAT L Microsurfacing System are to

- enhance surface roughness and micro texture of the pavement
- protect underlying surface from moisture damage by reducing water ingress
- improve durability of the pavement by preventing the oxidation of the binder in the underlying surface

SPECIFICATIONS

COLMAT L emulsion is manufactured from bitumen that complies with the requirement of Australian Standards AS2008 and has the following test properties;

| TYPICAL PROPERTIES OF COLMAT L MICROSURFACING EMULSION | | | |
|--|----------------|----------|----------|
| Emulsions Properties | Method | Limits | Results |
| Residue from evaporation, % | AS/NZS 2341.23 | 60 min | 64.0 |
| Sieve residue, 710 µm, % | AS/NZS 2341.26 | 0.25 max | 0.01 |
| Viscosity @ 60°C, mPas | AS 2341.4 | TBR | 50.0 |
| pH @ 25°C | AS/NZS 2341.32 | TBR | 3.58 |
| Particle charge | ASNZS 2341.22 | Positive | Positive |

APPLICATION AND HANDLING

- Localised cracks must be sealed and fatigue cracks repaired prior to placing the COLMAT System. Microsurfacing will not prevent cracks reappearing
- No tack coat is required
- No pneumatic tyre rolling required