



PRODUCTS & SERVICES

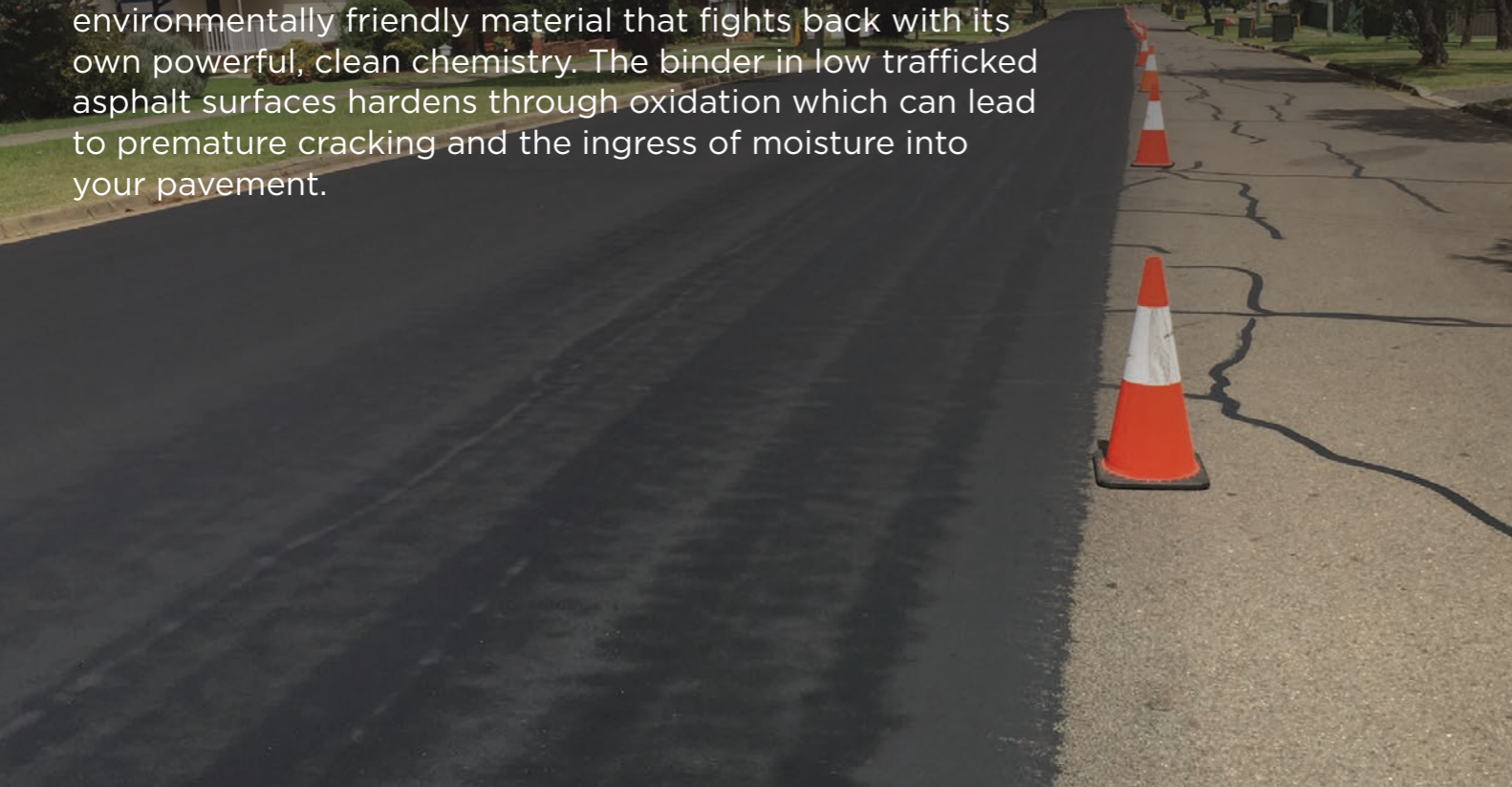
CAPABILITIES STATEMENT



WE OPEN THE WAY

PRESERVE YOUR AGED ASPHALT WITH ENRICHMENT TREATMENTS.

Your pavement is under constant attack from the environment. You need the protection of a safe, environmentally friendly material that fights back with its own powerful, clean chemistry. The binder in low trafficked asphalt surfaces hardens through oxidation which can lead to premature cracking and the ingress of moisture into your pavement.



SRS SEALCOAT

SRS SealCoat is a micro-surfacing sealant designed to extend the life of existing bituminous surfaces. The binder, in the asphalt, and spray seal are exposed to the harmful UV rays of the sun and rain, which can lead to the rapid deterioration of the bituminous surfacing.

By spraying SRS SealCoat onto aged bituminous surfaces you can:

- Seal micro cracks and prevent the ingress of moisture into the underlying pavement
- Enrich the surface to improve adhesion of the existing aggregates and reduce the loss thereof

Thus retarding the ageing process and extending the service life before more expensive treatments are required.

MATERIAL

SealCoating involves the application of a polymer modified bitumen emulsion containing specially graded aggregates, fillers, latex, rubber and pigment adjusters, with sand and water being post-added on-site prior to application. During the application process, the macro texture of the initial pavement is filled with the emulsion and fine sand to the point of oversaturation, covering the exposed aggregates in the process. During the curing phase, separation occurs between the filled emulsion and water resulting in a gradual reduction in layer thickness. After the water has vaporised, the residual SealCoat layer remains almost level with the top of the aggregate after curing has ended.

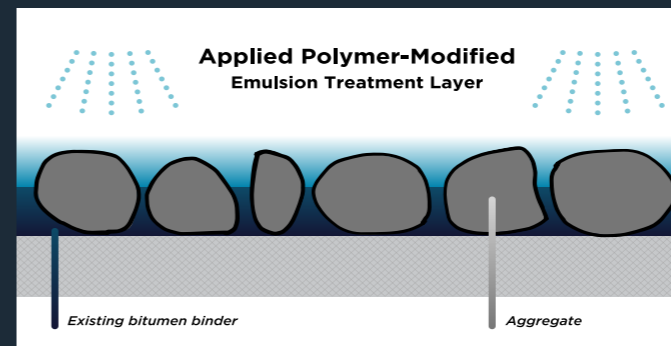
BEFORE



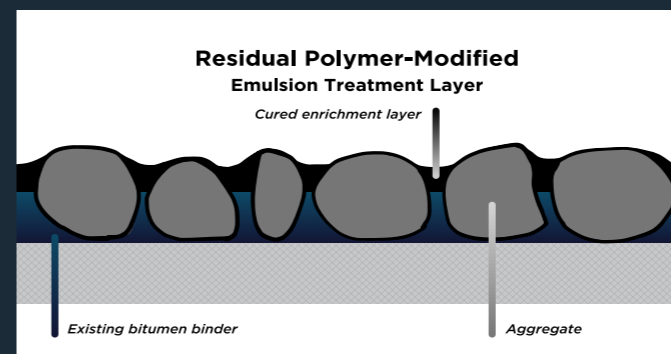
AFTER



SEALCOAT TREATMENT PROCESS



CURED SEALCOAT CONDITIONS



APPLICATION PROCESS

Custom built sprayers with larger nozzles than conventional bitumen sprayers, specialist pumps, and mixing paddles help to keep the material in suspension. Being an emulsion, it is not heated but applied at ambient temperature. Two key advantages of emulsion over conventional treatments are the speed of application with an average shift spraying over 6,000m² in urban streets and a fast drying time of between 30 mins and 2 hours. SealCoat will fill the surface voids but will not provide any shape correction. It can be applied a number of times to a structurally sound pavement at 5-yearly intervals.

RESULTS/TESTING

Current testing includes permeability and skid resistance with results showing the permeability level reduces and an increase in skid resistance values across all treated pavements.

CONCLUSION

The surfaces of flexible asphalt pavements designed for a 20 year life commonly have a functional life of between 12-15 years between major maintenance treatments; however, a mid-life surface treatment of SealCoat will help to impede the aging process and potentially delay the need for major maintenance treatments. After an application of SealCoat, the pavements skid resistance is improved and permeability decreased.



COLAS Australia Group Pty Ltd
3-5 Gibbon Road
Winston Hills NSW 2153
+61 2 9624 0100
+61 1300 0 COLAS (26527)
info@colas.com.au

www.colas.com.au

The material in this brochure is for information purposes only. COLAS does not guarantee that the information is complete or correct and does not accept any responsibility for loss or damage suffered by any person or body relying on any information contained. This brochure does not constitute advice and COLAS does not accept any liability for any decisions made on the basis. COLAS urges you to obtain your own advice with any selection or application of our products covered in this brochure.