

AIRPORT

BITUMINOUS PRODUCTS AND
SERVICES CAPABILITIES



WE OPEN THE WAY



TOP: Paving Asphalt with I-Brid binder on the apron at Bundaberg Airport QLD in June 2020

BOTTOM: Resealing Parkes Regional Airport, NSW in January 2020

When planning any maintenance or new construction for your airport pavements, please contact our local office who can arrange for our technical experts to provide you with advice on the most suitable products to use on your project. At COLAS our focus is to work with our clients to provide innovative and sustainable outcomes to help them deliver their projects on budget and on time. No job is too big or too small, from delivering large infrastructure projects to performing maintenance activities. We can provide these products and services individually or package them to suit your requirements.

For COLAS no job is too small or too big, we can provide these products and services individually or package them together to suit your needs.



OUR LOCAL AIRPORT OPERATIONS

Over and above our global capability, the COLAS Group, through its subsidiaries in Australia, are well placed to provide a wide range of bituminous products and contracting services for the construction and maintenance of airports pavements. These products range from providing special binders for asphalt to sprayed seals, high performance asphalts and a range of preservation treatments for airside pavements. From offering specialised products and services we also manage projects from start to finish and can provide everything from rubber removal to line marking, cable slots and runway friction testing. We have a dedicated team of specialists with experience in delivering airport projects across Australia to support our operational people in the field so that your project is delivered on time and on budget every time.

The COLAS Group in Australia has a fully integrated supply chain to deliver these products and services. These resources consist of state-of-the-art fixed binder and aggregate production plants, mobile binder blending and asphalt production plants, asphalt, spray sealing, microsurfacing and Seal Coat application crews.

Our bituminous products for airport pavements

PRODUCT	APPLICATION	BENEFIT
Binders		
SAMIBond 007	Bond coat	Non tracking polymer bitumen emulsion tack coat to increase asphalt bonding with substrate
SAMIfalt Multigrade Plus	Asphalt surfacings for runways and taxiways	Offers improved performance over unmodified bitumen
SAMIfalt B380	Asphalt surfacings for runways and taxiways	Offers enhanced plastic deformation resistance under high stresses
SAMIfalt I-Brid	High stress areas like aprons, taxiways and runways	High performance fuel resistant binder for asphalt which is less prone to cracking and deformation than other binders
Surfacings		
Spray seals	Rural runways and taxiways	Lowest cost surfacing with a high production rate to limit disruptions to airport operations
Grooved dense graded asphalt	Airports operating jet aircraft	When used with fit-for-purpose performance binders can provide good performance
SMA14	Airports operating jet aircraft with low traffic	Ungrooved asphalt with high surface texture and long service life
Base Course		
EME2 asphalt	High modulus asphalt	Provides increased strength to the pavement for heavy wide-bodied aircraft
Preservation		
Biorestor	Rejuvenation of aged bituminous surfaces	Softens oxidised bitumen in aged surfaces to retard cracking
GSB 88	Enrichment of aged bituminous surfaces	Seals micro cracks and extends the life of low trafficked bituminous surfaces
Sealcoat	Enrichment of aged bituminous surfaces	Extends the life of oxidised bituminous surfaces by adding more bitumen
Sealcoat FRM	Fuel resistant coating	Protects underlying asphalt from fuel spillages
COLMAT Microsurfacing	Thin resurfacing for lightly trafficked areas	Prevents the ingress of water into the existing surface by sealing micro cracks
SAMifilla HM & Crack Stix	Joint & crack sealant	Hot pour joint & crack sealant for asphalt and concrete

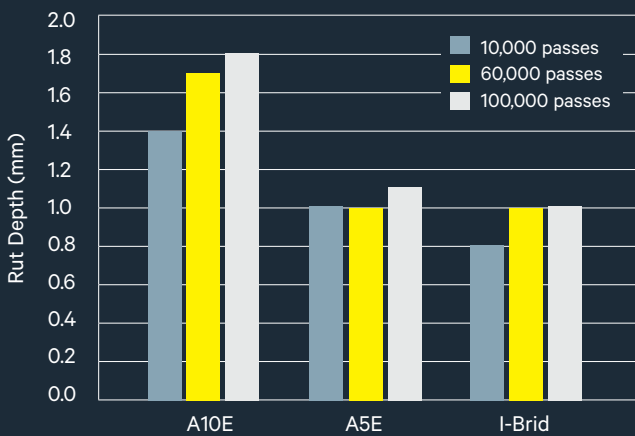


Echelon paving the main runway on the Charles De Gaulle airport in Paris.



Our products and services for airport pavements are backed by:

- An expert team of people who have extensive experience in designing spray seals, asphalt and microsurfacing mixes for airports.
- Well-equipped laboratories which can develop and test binders, asphalt and microsurfacing products specifically for airports conditions.
- Latest paving equipment which are fitted with joint heaters and GPS level control, rollers fitted with Intelligent compaction monitoring devices.
- Selection of modern mobile asphalt plants to undertake small or large works packages.



Typical wheel tracking performance @ 65°C of AC14 with different high-performance binders

OUR GLOBAL AIRPORT NETWORK

COLAS is a major international construction group specializing in providing products and services for constructing and maintaining pavements for major transport infrastructure like airports. With our head office and technical support from our R&D Centre in Paris, we are well positioned to deliver challenging airport projects through our network of subsidiaries in 50 countries anywhere in the world. COLAS subsidiaries have delivered some major airport projects in recent times which include:

- €145M Construction of new 3rd Runway at Bangkok Airport, Thailand ongoing until 2023
- \$84M Construction of Taxiway at Los Angeles airport, USA ongoing until 2023
- €10M Runway reconstruction at Cork Airport, Ireland in 2021, Colas Ltd Completes Ambitious Runway Reconstruction Project at Cork Airport
- €150M Refurbishing the runway at Luxemburg Airport in 2021
- €67M Rehabilitation of the main runway at Paris-Orly Airport, France in 2020



COLAS Australia has neighbouring subsidiaries in Reunion, Mauritius and New Caledonia which regularly deliver airport projects in these regions. We work with our Central Laboratory in Paris to validate our mix designs to ensure that they will meet the demanding performance requirements for the projects. The strength of the COLAS Group lies in our access to global resources and expertise to delivery challenging airport projects using local knowledge and capabilities.

APPLICATION OF OUR PRODUCTS AND SERVICES ON LOCAL AIRPORTS

PRODUCT	LOCATION	PROJECT DETAILS	DATE
SAMIBond 007	Sale, VIC	Resurfacing main runway	2019/2020
SAMlbond 007	Solomon, WA	Resurfacing main runway	2020
SAMlbond 007	Sydney airport, NSW	Resurfacing taxiways	2020
B380	Port Hedland Airport, WA	Resurfacing main runway	2019
B380	Wodgina Airport, WA	Resurfacing main runway	2019
B380	Duketon Airport, WA	Resurfacing main runway	2019
B380	Solomon Airport, Broom, WA	Resurfacing main runway	2019
I-Brid	Bundaberg, QLD	Resurfacing apron	2020
Spray sealing	Western Sydney Airport, NSW	1.8M m2 spray seal	2021/22
Spray sealing	Parks, NSW	52,000m2 resealing runway	2022
Spray sealing	Cunnamulla, QLD	Resealing runway	2020
Spray sealing	Thargomindah, QLD	Resealing runway	2020
Spray sealing	Koodaideri mine, WA	1.9M litre new sealed runway	2020
Spray sealing	Williamson Airfield, QLD	Resealing runway	2020
Spray sealing	Shoalwater Bay, QLD	Sealing new runway	2020
Spray sealing	Ballarat, VIC	31,300m2 reseal runway	2019
Spray sealing	Donald, VIC	24,000m2 reseal runway	2020
Spray sealing	Wentworth Shire, VIC	78,000 m2 reseal runway, taxiway and apron	2020
Grooved asphalt	Hervey Bay, QLD	Taxiway and apron	2019
Grooved asphalt	Bundaberg, QLD	1,800t asphalt apron overlay	2020
Grooved asphalt	Hopetoun, VIC	1,900t asphalt runway overlay	2019
Sealcoat	Sydney, NSW	300,000m2 Taxiway shoulders	2018
Sealcoat	Brisbane airport, QLD	Taxiways shoulders	2022
Sealcoat	Wellcamp, QLD	Taxiway shoulders	2022
Sealcoat FRM	Alice Springs, NT	Parking Bays	2019
Sealcoat FRM	Sunshine Coast, QLD	Parking Bays	2020
Sealcoat FRM	RAAF Oakey	Parking Bays	2020
Crack Sealing	Canberra, ACT	Various Locations	2022
Crack Sealing	RAAF Williamtown, NSW	Various Locations	2022
Crack Sealing	RAAF Townsville, QLD	Various Locations	2022

Sealcoat on the shoulders of the taxiways at Sydney Airport in 2018

OUR PLEDGE TO SUSTAINABILITY

The Colas Group is committed to reducing the carbon footprint of our products and services by 30% by 2030. We plan to achieve this through the design, manufacture, and application of our products by replacing non-renewable materials with repurposed waste materials, reducing our energy consumption, and improving their performance to ensure that they provide a longer lasting maintenance free life. Our ECO 5 range of dense graded asphalt optimises the reuse of RAP, recycled crushed glass, crumb rubber from old tyres, steel slag, repurposed plastic, and warm mix technology to produce a mix with superior performance properties to standard dense graded asphalt. The crumb rubber from old tyres that we use to modify our binders can be sprayed without cutters to provide more durable and longer lasting seals. The emulsions that we use in our sprayed seals, microsurfacing and Sealcoat treatments eliminate the need to use volatile cutters and reduce the amount of energy required to perform these applications. Our Ecomac, Bioprime and Bioestor are produced from non-petroleum-based cutters and fluxes.



For more information on our products and services please email airports@colas.com.au or visit www.colas.com.au so we can put you in touch with our local providers in your area:



**Safer
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Solutions**

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