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ROADS & INFRASTRUCTURE AUSTRALIA

The switch to green

One of Australia's largest infrastructure providers is making sustainable changes across the board

Future-proofing for millions

Inside one of Victoria's largest ever infrastructure endeavours, the Level Crossing Removal Project

FAMILY-LED EXCELLENCE

Stabilised Pavements of Australia sheds light on what it takes to be a pioneer and innovator across four decades



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GREENER, CLEANER, SMARTER

SRIPATH'S NUMIXER BITUMEN SOFTENER IS HELPING TO COMBAT THE GROWING ISSUE OF BITUMEN QUALITY VARIABILITY, WHILE ALSO BEING A FRIEND TO THE ENVIRONMENT. SEEM TOO GOOD TO BE TRUE? AS SRIPATH'S TEAM EXPLAIN, THIS SOLUTION IS REAL AND AVAILABLE NOW.



Sripath Technologies' NuMIXER bitumen softener has helped customers achieve greater performance and sustainability when compared to conventional additives.

Images: Sripath.

Sripath Technologies has long been an ally of the environment. Acknowledging that it produces products that will inevitably impact the environment in some way, the company is determined to maximise sustainability gains wherever and whenever possible.

Deepak Madan, Chief Operating Officer – Sripath, says a passion for developing sustainable solutions has been intrinsic to the company's success, with carbon reduction opportunities always front of mind during product design and delivery.

A big part of this focus is being open with customers, with a robust package of Environmental Product Declarations

(EPD) and sustainability reports ensuring that customers – and Sripath itself – can be fully aware of the environmental impacts of manufacturing, distributing and using the company's products.

"Sripath has elected to embrace transparency as a key aspect of our business strategy," Madan says. "Sustainability is an integral part of our corporate DNA."

Sripath supports the adoption of enhanced circular economy concepts with minimal waste, with the company's research and development team incorporating sustainability into every stage of a product's development.

Sripath's sustainable bitumen softener

NuMIXER is another tool in the company's eco-friendly arsenal.

NATURALLY ENHANCING PROPERTIES

Sripath Technologies' NuMIXER is a sustainable bitumen softener, produced from a blend of prime green bio-based oils, sourced from renewable crops that do not negatively affect food sources and production.

Sustainably sourced, NuMIXER also helps to reduce the user's overall carbon footprint through multiple facets. The product can be used and shipped at ambient temperatures, while also reducing energy consumption and lower greenhouse gas emissions.

Right: Sripath Technologies provides considerable transparency around the sustainable properties and performance of its products, including NuMIXER.

NuMIXER also helps to tackle what is a growing issue in the sector. Bitumen quality variability is increasingly prevalent, with differing suppliers, transport methods and production processes leading to batches with fluctuating properties.

“Customers in Australia and New Zealand increasingly rely on imported bitumen. There used to be a time where refineries in the region were refining crude oil and producing bitumen of consistent quality,” he says.

“Now refineries around the globe are buying crude oil on the open market based on availability and price.

“They adjust their process to derive the best value-added fuel refining crude oil and producing bitumen of consistent quality.”

He says many bitumen suppliers and/or users are using a range of additives to adjust the properties and performance of bitumen in an effort to mitigate the inherent variability in quality as a result.

“We’re even seeing customers in South Africa that are starting to feel the pinch because they’re not refining anymore and needing to import,” Madan says. “They’re starting to realise that they need to change their mindset, from expecting the bitumen supplier to take care of the quality, to being able to take care of the quality themselves.”

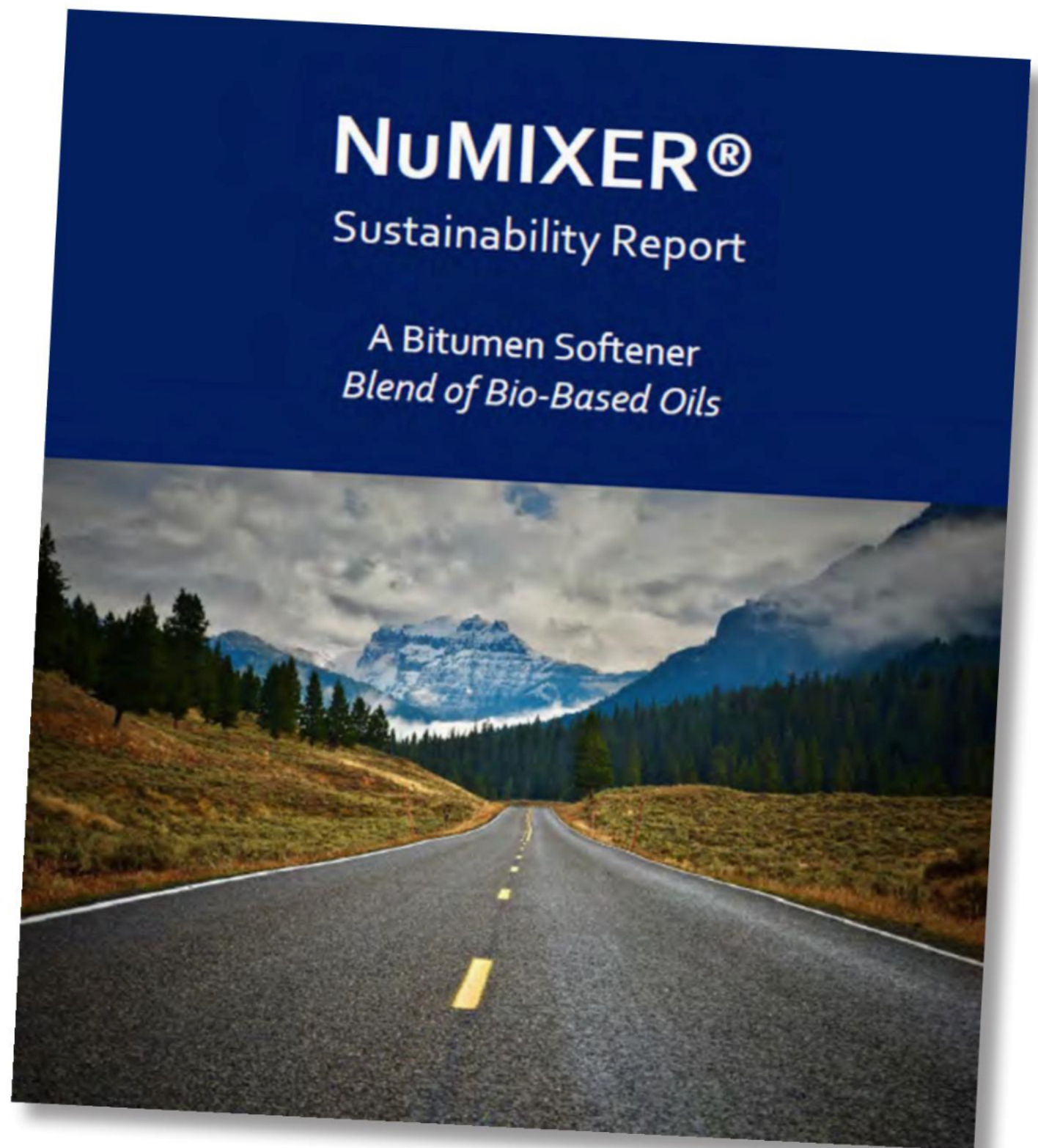
It’s here that NuMIXER excels. As Krishna Srinivasan, President – Sripath Technologies explains, few products can help to improve the consistency, long-term performance and sustainability of bitumen simultaneously.

“NuMIXER is designed with sustainability at the forefront,” he says.

“It is an innovative bitumen softener, designed as an additive to help mitigate the inherent variability in the quality of bitumen that is fast becoming a global issue.

“It’s clearly an effective alternative to petrochemical oil-based products. NuMIXER not only mitigates the property deficiencies of bitumen and promotes durability, but also helps customers lower their overall carbon footprint and meet their net zero carbon goals.”

NuMIXER achieves this by decreasing



“NUMIXER, OUR ENVIRONMENTALLY-FRIENDLY BITUMEN SOFTENER, IS FAST BECOMING THE ADDITIVE OF CHOICE TO HELP ADJUST AND MANAGE THE PERFORMANCE PROPERTIES OF BITUMEN.”

stiffness and increasing the compliance value (m-Value) in poor quality binders while improving failure, fatigue and cracking resistance.

NuMIXER also helps to expand the low temperature range of bitumen. This is achieved in part due to the product’s high potential to reduce the viscosity of bitumen. As an example, a five per cent NuMIXER addition can reduce bitumen viscosity by about 5-15 per cent.

Ravi Rajagopalan, General Manager, Sripath Asia-Pac, says NuMIXER has proven to be popular across the globe for close to a decade, due to its reliability and enhanced performance.

Now, the next step is further use and growth across Australasia, as Rajagopalan explains.

“Increasingly, the bitumen and asphalt industry in Australia and New Zealand is embracing net zero carbon goals and focusing on sustainability,” he says. “NuMIXER, our environmentally-

friendly bitumen softener, is fast becoming the additive of choice to help adjust and manage the performance properties of bitumen.”

As with the majority of Sripath Technologies’ products, customers can view the full EPD for the NuMIXER to learn more about its sustainability properties and performance. As Madan explains.

“A big part of our sustainability strategy is continuous improvement. To go through the process of completing our EPDs allowed us to look right from the ground up, all the way through our supply chain, taking every step very seriously along the way,” he says.

“We provide easy access to all of our EPDs and Sustainability Reports, including NuMIXER, on our website.

“We have a robust pipeline of new product and technological development underway. Now, more than ever, sustainability is at the forefront of those new developments.” ■