

CARBONMASTIC™

BY AUSTEK



ADVANTAGES OF CARBONMASTIC



WHAT IS CARBONMASTIC?

Carbonmastic is a small stone Stone Mastic Asphalt (SMA) that has been modified with carbon char reclaimed from Queensland waste tyres. With a 7mm nominal maximum stone size, Carbonmastic produces superior performance over conventional asphalt products. Austek Asphalt Production's Carbonmastic is a proprietary product that meets the national Australian Asphalt Pavement Association (AAPA) SMA 7 specification. Produced using activated carbon, cellulose fibre, lime, bitumen and virgin aggregates, our Carbonmastic sets the bar as a high performing, premium quality, skid resistant, durable, noise minimising, eco-friendly and cost competitive asphalt product.



100% AUSTRALIAN OWNED & OPERATED



PERFORMANCE ADVANTAGES

The single stone matrix design combined with a bitumen rich blend of carbon, lime and cellulose fibres produces a strong skeletal adhesive bond between the aggregates. This innovative asphalt mix composition provides a strong, flexible, durable, rutting resistant, robust, low noise asphalt pavement. Carbonmastic's greatest attribute is that it can be used in thin layers from 20mm – 50mm whilst still delivering superior high performance. Where surface cracking and minor deformations occur, Carbonmastic can be directly overlaid to contain the reflective cracking and provide a durable layer of strength to greatly improve and increase the life expectancy of the pavement.

Carbonmastic can be used as a replacement to messy and noisy spray seal pavements. Laid at 20mm, Carbonmastic provides a great performance life, with the total cost being more favourable. This replacement treatment avoids the costly follow up sweeping of spray seals and eliminates the safety hazard of chip mitigation from loose spray seals. The result is a smoother, quieter and safer pavement ride for residents and road users.

COMPARED TO CONVENTIONAL ASPHALT

- ✓ Cheaper alternative
- ✓ Higher rut resistance
- ✓ Greater resistance to fatigue
- ✓ Higher shear strength
- ✓ Superior durability
- ✓ Smoother and quieter ride
- ✓ Improved flexibility
- ✓ Ability to contain reflective cracking
- ✓ Increased colour duration
- ✓ Every tonne used utilises 10 waste tyres



**10 Tyres
Recycled**
for every tonne of
Carbonmastic made



**Targeting Savings
of 1.3 Million Litres
of Diesel Fuel**
per year by fuelling our
production plant with
tyre derived liquid fuels



**Equivalent To
Recycling 25,000
Tonnes of Tyres**
from our landfills

Using Austek Asphalt Production's Carbonmastic will equate to approximately 10 used vehicle tyres being repurposed into every tonne of asphalt produced. Our asphalt production facility operates on tyre derived liquid fuels which enables savings of a targeted 1.3 million litres of diesel. This means that around 25,000 tonnes of local Queensland tyres are being recycled and reused in our manufacturing of local Queensland roads each year. The impact of this cannot be understated, with 71% of Queensland tyres ending up in landfill, each tonne of Carbonmastic laid contributes to a greener, more sustainable Queensland.

For further information please contact our offices on
(07) 3883 4528

