

# SAMIFALT CRUMBFLEX

**SUSTAINABLE** HYBRID MODIFIED BINDER  
INCORPORATING SBS AND CRUMB RUBBER  
FROM END-OF-LIFE VEHICLE TYRES

- Similar engineering performance as conventional PMB
- Reduced carbon footprint
- Improved sustainability



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## FEATURES

### Similar engineering performance as conventional PMB

SAMIfalt CRUMBFlex exhibits the same engineering properties as conventional polymer-modified binders (PMB), such as A10E and A15E. It can be manufactured according to Austroads ATS 3110.

### Reduced carbon footprint

SAMIfalt CRUMBFlex boasts around 10% lower carbon footprint compared to conventional PMBs, leading to reduced carbon-equivalent emissions in all pavement construction projects.

### Improved sustainability

SAMIfalt CRUMBFlex incorporates crumb rubber sourced from end-of-life tyres, transforming waste into a valuable resource and representing a substantial leap towards sustainable asphalt production.

## DESCRIPTION

SAMIfalt CRUMBFlex is an innovative polymer-modified hybrid binder designed to improve sustainability in asphalt pavement construction. This groundbreaking product complies with the ATS 3110 engineering properties requirements for conventional PMB binders like A10E or A15E specifications, ensuring equivalent performance and quality. However, what sets SAMIfalt CRUMBFlex apart is its eco-friendly approach.

By incorporating a considerable amount of crumb rubber sourced from end-of-life tyres SAMIfalt CRUMBFlex reduces its carbon footprint. In manufacturing, this waste material replaces virgin bitumen and part of imported SBS polymers,

reducing the need for new non-renewable resources and helping keep EOL tyres out of landfills, minimizing the impact on the environment. Additionally, special additives and polymers are carefully blended to ensure compatibility and excellent storage stability during handling and transport. SAMIfalt CRUMBFlex Plus is designed to mix asphalt at lower temperatures to reduce fuming and energy.

With equivalent engineering properties and improved environmental credentials, this innovative binder is a testament to the continuous efforts to create a more sustainable and resilient future for the asphalt pavement construction industry.

## APPLICATIONS

SAMIfalt CRUMBFlex can be used as a binder in most types of asphalt mixtures such as dense-graded (DG), open-graded (OG) and gap-graded (e.g., SMA) for both wearing and base courses.

## TECHNICAL PROPERTIES

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUES	ATS 3110 (A15E)
Softening Point	°C	AGPT/T131	95	82 – 105
Consistency 6% at 60°C	Pa.s	AGPT/T121	1200	Min. 900
Stiffness at 25°C	kPa	AGPT/T121	22	Max. 30
Torsional Recovery at 25°C	%	AGPT/T122	65	55 – 80
Viscosity at 165°C	Pa.s	AGPT/T111	0.85	Max. 0.9



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