

asphix™

antistripping agents



High performance, heat stable additives formulated to significantly enhance the adhesion between a wide range of bitumen and aggregate combinations.

Adhesion promotion between bitumen and the aggregates used in asphalts is essential in producing durable materials that perform as expected. It is well known that the bitumen bond to certain aggregates can be quite poor which could potentially lead to early material failure. It is therefore important that an anti-stripping agent like Asphix™ is used in order to improve the aggregate to bitumen bond and the materials overall performance. Asphix™ has been shown to work in practise with a variety of aggregate types and improve durability for a variety of mixtures.

APPLICATIONS

Hot Mix Asphalt (HMA)

Promotes adhesion between bitumen and aggregates at typical HMA temperatures (140-180°C). Heat stable in hot bitumen. Can be stored at high temperatures and not lose activity.

Warm Mix Asphalt (WMA)

Can be used with a variety of WMA systems (such as foam and additives) to enhance bitumen-aggregate adhesion at temperatures between (90-140°C).

Cold Mix

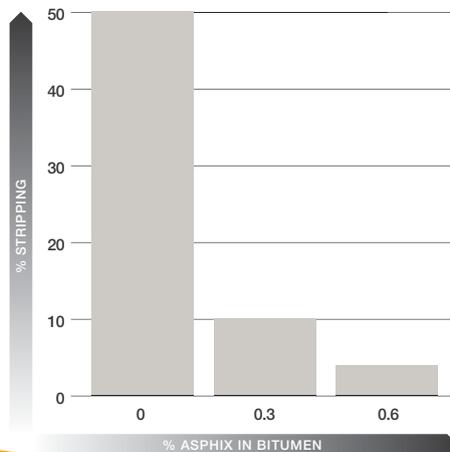
Effective when used with Foam-mix systems to extend foam life and improve Reclaimed Asphalt Pavement (RAP) to bitumen adhesion.

Co-emulsifier for bitumen emulsions

Used to improve stability and storage at higher temperatures, and also provide a more consistent and uniform spray during application of surface dressing binders.

STRIPPING TESTS

The EN12697-11(C) Boiling Water Stripping Test is an aggressive, objective adhesion test with good precision that can be used across a variety of aggregate types. This test was chosen to show the improvement that Asphix™ makes to an aggregate that is exhibiting considerable stripping during this procedure. These results show that Asphix™ offers at least five times improvement over an untreated sample.



ADDITION

- Asphix™ can be:
 - Added to hot bitumen in storage
 - Dosed into the bitumen weigh kettle
 - Added directly into the mixer
 - Dosed into the bitumen feed line of continuous plants

HANDLING

- Asphix™ is a dark paste that needs heating to 50-70°C in order to pump it
- Asphix™ L is a liquid that can be pumped down to approximately -10°C
- Asphix™ and Asphix™ L should be dosed into bitumen between 100-190°C

DOSAGE

- Dosage of both Asphix™ and Asphix™ L is 0.1-1.25% (weight of bitumen) depending upon the application

AVAILABILITY

- Asphix™ and Asphix™ L are available in:
 - 1,000 litre IBC
 - 200 litre drums

STORAGE

- Asphix™ and Asphix™ L have a minimum shelf life of 2 years

HEALTH, SAFETY & THE ENVIRONMENT

- Asphix™ and Asphix™ L should be used in accordance with the relevant Safety Data Sheet (SDS)

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