

ASPHALT ADDITIVES



HELPING TO IMPROVE
ASPHALT QUALITY

ASFIER® Asphalt emulsion products.
GRIPPER® Antistripping agents.
DANOX® Recycling.

KAO TECHNICAL APPLICATIONS
ASPHALTS

ASPHALT ADDITIVES

To improve Road Performance

QuimiKao S.A., de C.V. is a Kao Chemicals division that is dedicated to the manufacture of surfactants and its derivatives used in various industries. ASFIER® is the product line that is used to make high performance asphalt emulsions for different uses in the road construction and maintenance industry.

Product	Applications	Key Benefits
Asfier 100	Rapid Setting Cationic Emulsions	<ul style="list-style-type: none"> • Rapid Setting • High adhesion performance
Asfier N100L	Chip Seal/Tack Coat	<ul style="list-style-type: none"> • High adhesion performance emulsifier in liquid form
Asfier HP135	Chip Seal	<ul style="list-style-type: none"> • Fast curing and improved chip retention • Quicker return to traffic • Less run-off if caught in rain
Asfier 260	Cold Mixes	<ul style="list-style-type: none"> • Makes highly stable emulsions
Asfier N480L	Micro Surfacing	<ul style="list-style-type: none"> • Rapid cure with superior set performance • Good adhesion of asphalt to aggregates • Improved and quick gain in cohesion strength • Superior emulsification with polymer modified asphalts
Asfier 650KX	Micro Surfacing	<ul style="list-style-type: none"> • Controllable mixing times (up to 115 F) • Resistance to mix segregation • Expands range of pre-mix water and performance of break additives • Cohesion development is not affected

With our strong technical support and state of the art laboratories in Guadalajara, Mexico; High Point, North Carolina; Barcelona, Spain and Tokyo, Japan, we also have the capability to develop custom tailored products for specific applications.

The chemical affinity of the asphalt and aggregates, and therefore the performance of the mixture, can be improved by adding certain chemical additives. These additives are known as Anti-Stripping Agents or Adhesion Promoters and can improve the strength of the chemical bond between the aggregate and asphalt. GRIPPER® is the product line that improves resistance to damage from moisture and can prevent premature failures of the pavement through failure mechanisms like rutting, raveling and potholes.

Benefits

Improved Constructability	<p><i>Produces mixes with improved workability, coating and black, shiny surfaces.</i></p> <p><i>Compatibility with a wide range of asphalts (polymer modified, rubber modified, etc.) and aggregate types</i></p> <p><i>Easy handling – can be added at the HMA plant or asphalt terminal.</i></p>
Improved Mixture Performance	<p><i>Improved adhesion of asphalt and aggregate</i></p> <p><i>Protection against moisture damage and related distresses.</i></p>
Improved Ride Quality	<p><i>Protection against moisture damage prevents surface distresses like potholes, rutting, etc.</i></p>

Other Product Offerings & Applications

Product	Appearance @ 25 C	Applications
Asfier 150	Paste	Fog seal, Chip seal, Tack coat
Asfier 410	Paste	Slurry seal, Cold mix
Asfier 510	Paste	Microsurfacing, Slurry seal
Danox A-P	Paste	Recycling agent
Danox A-RJ	Liquid	Recycling agent



Quimi Kao S.A. de C.V.

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