

*good chemistry*



# ROAD CONSTRUCTION ADDITIVES

**AECI Specialty Chemicals manufactures and distributes a range of high-performance fatty acid and rosin-based road construction additives under the Vinex brand.**

**AECI Specialty Chemicals has, for over 6 decades, strived to continually innovate and create value for our customers.**

Vinex additives are mainly derived from fatty acids and rosin based products, they are designed for use in a variety of bitumen additives for road, industrial applications and dust depression. Our Research and Development team of experienced synthetic chemists and application engineers

constantly strive to develop new technical solutions to solve the multiple challenges which confronts bitumen industry.

Supported by our comprehensive pilot plants, high tech analytical laboratories and application testing facilities, we are able to produce products that are unique like Africa, cost effective and meet consistently high quality standards.



## PRODUCT CATEGORIES

### Paving the way to better roads

#### 01 Adhesion Promoters

Our range of adhesion promoters are specifically formulated additives that enhance the bond between asphalt and aggregates in road construction applications. This results in longer-lasting and more durable road surfaces, reducing the occurrence of premature pavement failure due to debonding and cracking. By improving the bonding between asphalt and aggregates, Vinex Adhesion Promoters also enhance the resistance to moisture damage. This reduces maintenance and repair costs, making it an economical choice for surface course asphalt mixtures, cold mixes, slurry seals, and micro-surfacing.

#### 03 Rejuvenating Agents

Our range of Rejuvenating Agents are advanced additives that are designed to restore the properties of aged asphalt pavements. They improve the viscosity and flexibility of the asphalt, resulting in a smoother and more resilient road surface. This increases the durability and longevity of road surfaces, reducing the need for expensive and time-consuming pavement reconstruction. It is suitable for surface course asphalt mixtures, reclaimed asphalt pavement (RAP), recycled asphalt shingles (RAS), and cold mixes.

#### 02 Emulsifiers

Our range of Emulsifiers are essential components in the production of asphalt emulsions, which are used extensively in road construction and maintenance applications. They enable the formation and stabilization of asphalt-water emulsions, resulting in improved workability and performance. Vinex Emulsifiers also enhance the adhesion between asphalt and aggregates, reducing the amount of asphalt required for road construction. This makes it a suitable choice for surface treatments, fog seals, prime coats, tack coats, and chip seals.

#### 04 Micro-surfacing Agents

Our range of Micro-surfacing Agents are specially formulated additives that improve the performance of micro-surfacing applications. They enhance the bonding between the asphalt and aggregates, resulting in a smoother and more durable road surface. Vinex Micro-surfacing Agents increase the resistance to abrasion and weathering, reducing the occurrence of pavement distress. By increasing the longevity and durability of road surfaces, it is suitable for micro-surfacing and slurry seals.



VINEX ADDITIVES

CHOOSE VINEX ROAD CONSTRUCTION  
ADDITIVES FOR SUPERIOR PERFORMANCE

## PRODUCT APPLICATIONS

#### ADHESION PROMOTION:

Adhesion Promoters enhance the bond between asphalt and aggregates in road construction applications, resulting in longer-lasting and more durable road surfaces.

#### WARM MIX ASPHALT:

Warm Mix Asphalt Additives enable the production of asphalt mixtures at lower temperatures, reducing energy consumption and greenhouse gas emissions.

#### CONCRETE AIR ENTRAINMENT:

Concrete Air Entraining Agents improve the workability and durability of concrete by entraining air, making it more resistant to freeze-thaw cycles and reducing the risk of cracking.

#### SURFACE DRESSING/CHIP SEAL:

Surface Dressing Additives enhance the performance of surface dressing and chip seal applications, improving the bonding between the asphalt and aggregates and increasing the resistance to weathering and abrasion.

#### SLURRY SEALS:

Slurry Seal Additives enhance the performance of slurry seal applications, improving the bonding between the asphalt and aggregates and increasing the resistance to abrasion and weathering.

#### GRADED COLD MIXES:

Graded Cold Mix Additives improve the workability and performance of cold mix asphalt, enabling it to be used in a wider range of applications while reducing the cost and environmental impact of road construction.

#### DUST SUPPRESSION:

Dust Suppressors are designed to control dust emissions from unpaved roads and other surfaces, making them safer and more environmentally friendly.

#### GRAVE EMULSION

An environmentally friendly emulsion that incorporates reclaimed asphalt pavement (RAP) in the mix. It is cost effective compared to traditional methods.

#### ASPHALT REJUVENATION:

Asphalt Rejuvenators restore the properties of aged asphalt pavements, increasing their durability and longevity while reducing the need for costly and time-consuming pavement reconstruction.

#### MICRO-SURFACING:

Micro-surfacing Additives enhance the performance of micro-surfacing applications, resulting in a smoother and more durable road surface that is resistant to abrasion and weathering.

#### TACK AND PRIME COATS:

Tack and Prime Coat Additives improve the adhesion between the asphalt layers, increasing the longevity and durability of road surfaces.

#### THERMOPLASTIC ROAD MARKING RESIN:

Thermoplastic Road Marking Resin is a durable and highly visible road marking material that provides excellent skid resistance and reflectivity.

# WHY PARTNER WITH AECI SPECIALTY CHEMICALS?

01

## CUSTOMISATION AND FLEXIBILITY

We offers customised solutions to meet customer and market requirements, with the ability to modify our oleochemical products to meet every specification.

02

## RESEARCH AND DEVELOPMENT

Our Research & Development department is dedicated to developing technical solutions that meet the stringent requirements of our customers - we are constantly exploring new ways to improve our products and processes to meet the needs of our customers and stay abreast of the latest advances in the industry.

03

## QUALITY ASSURANCE

Our manufacturing laboratories ensure that quality standards are fully maintained. We follow strict quality control procedures to ensure that our products meet or exceed customer expectations.

04

## SUSTAINABILITY

Our road construction additives are derived from seasonally renewable agricultural resources, and we utilize the by-products from edible oil, pulp and paper, and biodiesel manufacturers to minimise waste and environmental impact. As winners of the 2022 Responsible Care Initiative of the Year award (CAIA), we have a commitment to sustainability and responsible business practices.

05

## BULK STORAGE FACILITIES AND SUPPLY RELIABILITY

We operate our own bulk tank farm in South Africa, with 8000 tons bulk storage capacity for handling raw material imports. With our robust infrastructure and extensive capacity, we are well-positioned to ensure a stable and reliable chemical supply

VISIT OUR WEBSITE



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