

# Mixing Technology



**Shingle Coating Asphalt ■ Modified Bitumens ■ Modified Road Paving Asphalts**

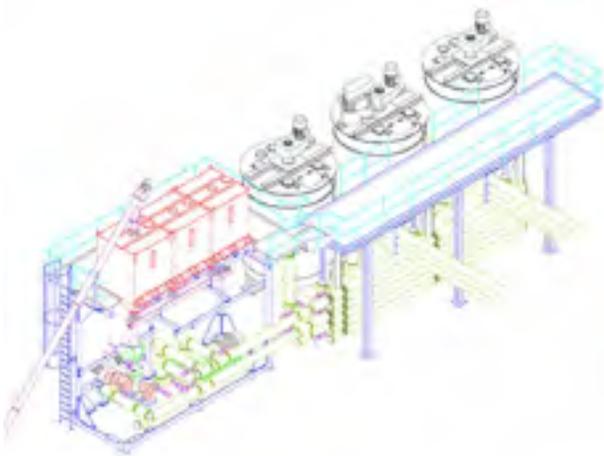
Advanced mixing systems for preparation of high quality asphalt and modified bitumen coating compounds.

**Reichel & Drews offers a full line of mixing systems used in modified bitumen membrane production, asphalt (bitumen) shingle production and road paving asphalt production. Each system is custom designed and configured to meet a customer's specific production requirements.**

### **SBS/APP Mixing Systems**

Reichel & Drews has the optimum solution to meet your stringent requirements to produce SBS modified coatings and APP modified coatings.

Various vertical mixer and horizontal mixer designs optimize the coating process. With the addition of the optional R&D pre-mixing system it is possible to prepare high quality modified bitumen compounds in less time than can be achieved with traditional mixing processes.



### **Pre-Mixing Systems**

Priority when producing modified bitumen coating compounds must be devoted to maintaining consistent compound quality. It is also important to reduce the mixing time, the energy required for the mixing process and the reduction of harmful fumes being released into the environment.

The Reichel & Drews Pre-Mixing System solves these problems and addresses the requirements of high quality modified bitumen coating compound production. At the heart of our Pre-Mixing System is our proprietary premixing nozzle that ensures 100% of the modifier and bitumen have passed thru the homogenizer. There are no sediments of modifier remaining in the mixer.

Modifier and bitumen are introduced into the pre-mix nozzle at controlled rates. The modifier pellets that have not yet been melted pass thru the homogenizer thus maximizing the shearing effect and assuring a complete homogenized mix of modifier and bitumen once introduced to the vertical mixer.



### **Filled Coating Mixing Systems**

Reichel & Drews' Filled Coating Mixing Systems are specifically designed for the production of coating compound with high filler content requirement. Up to 70% filler.

The Filled Coating Mixing System is intended for mixing ground limestone and bitumen in a continuous process. Its functions are to regulate and meter the flow of incoming bitumen, heat, convey and meter ground limestone filler, mix the bitumen and filler, hold the filled compound in an agitated holding tank and feed filled compound to the Coater.

## Adhesive Mixing Systems

Reichel & Drews offers various systems for mixing special formulations of bitumen based adhesive used in self adhering roofing membranes and shingles. Each system is designed to meet our customer's specific requirements.



## Road Paving Asphalt Processing Technology

### Medium Capacity Production Systems

Reichel & Drews' designs and manufactures extremely flexible production centers that provide high quality mixing capabilities yet occupy a minimum amount of space. These medium-capacity preassembled asphalt production systems are extremely practical and useful for smaller terminals, paving contractors, or geographical areas where demand is less centralized. These systems are skid-mounted so they can be relocated when and where necessary with minimal cost and downtime.

## High Capacity Production Systems

In addition to our Medium Capacity Production Systems, Reichel & Drews designs and manufactures high capacity systems for refinery or terminal operations where high volumes may be shipped. Our process controls and metering technology make each system a model of quality and efficiency that will operate reliably and durably for years to come.

Our pre-assembled, turnkey production systems utilize modular construction techniques to optimize your modification process.

Manufacturing an efficient asphalt processing system is a complex endeavor, so we make it our business to understand your business. When you rely on Reichel & Drews, you benefit from our 95 years of asphalt experience – and our dedication to you.



## Mobile Production Systems

Mobil and rental systems from Reichel & Drews Asphalt Processing Technology offer exceptional convenience. These systems make proper production equipment available for remote locations, field trials or markets where product demand does not yet justify the capital expenditure for continuous production of modified asphalt.

Step ahead of the competition with the 10T Portable PMA Production System. It's not just another portable PMA production system. Reichel & Drews' PMA production system has the advanced technology and all the benefits you've been looking for:

**Automated Process Control System** - controls the temperature of material in the mixing and holding tanks and provides for consistent and accurate mixing of polymer and asphalt using preprogrammed mixing sequences, ensuring consistent PMA binder

**Modifiers** - system designed to use SBS as the primary modifier but is capable of modifying asphalt with other dry, free-flowing modifiers such as polypropylene, polyethylene and EVA

**Easily Transportable** - skid mounted to facilitate shipping and portability

**Production Rate** - the 10T Portable PMA Production System is capable of producing 11 tons per hour, of PMA at a modifier concentration of 4%



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