

Emix

**COLD ASPHALT
MIXING UNIT**



Emix

| AGILITY

Specifically developed to bring agility to construction industry professionals, the **Emix** is the compact version of the industrial asphalt mixing units well known in the sector.

With a capacity of 2 tons per hour and full automation, it is a versatile machine, suitable for both occasional batches and regular production.

Focused on the production of storable asphalt mix, **Emix** is the perfect companion to VIALAB emulsion production units, allowing immediate application of fluxed emulsions and seamless packaging of the mixture.

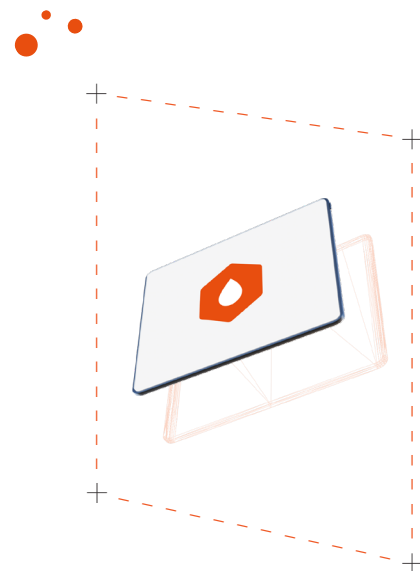
| AUTOMATIC CONTROL

To seamlessly integrate into your operations, **Emix** is fully automated and optimized, allowing it to be operated by a single person.

Enter your asphalt mix composition, the desired quantity, and start production. Fully configurable, the unit adapts to your formulas and production goals.

Once the asphalt mix is produced, the **Packaging** option automatically collects the mixture and doses it into the containers of your choice. Finally, the **Sealing** option seals the asphalt bags, allowing you to deliver a finished product ready for distribution.

From raw materials to packaged asphalt mix, **Emix** delivers precision, efficiency and simplicity.





| YIELD

Featuring a hopper capable of holding 4 tons of aggregates, **Emix** produces asphalt at a rate of 2 tons per hour, in 100 kg batches. The conveyor is adjustable to accommodate aggregates ranging from 2 to 8 mm in size.

To ensure proper coating of your aggregates, VIALAB has integrated a water injection line connected to a 100 L tank. On the emulsion side, the unit is equipped with a heated and insulated injection line, allowing you to control the viscosity and adhesiveness of your binders.

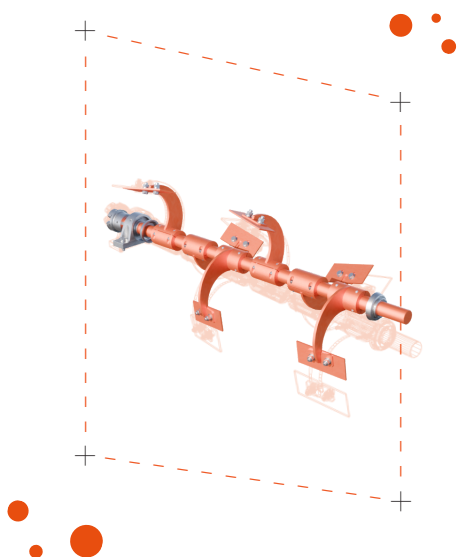
Emix delivers 3,000 tons per year of high-quality emulsion asphalt for road maintenance, trench filling, and private surfaces—all in a mobile unit that can be deployed wherever needed.

| PRECISION

In addition to yield and agility, **Emix** offers the precision of its weighing equipment. Since the performance of the asphalt mix is directly linked to the balance of its components, the unit is equipped with four load cells at the mixer to ensure accurate dosing of the ingredients.

Thanks to its variable speed and negative weighing system, the packaging screw controls the amount of asphalt in each batch. The discharge values are continuously adjusted by the machine, resulting in both increased precision and material savings.

With **Emix**, provide your clients with high-performance materials by maximizing the potential of your raw materials and ensuring product quality from mixing to packaging.



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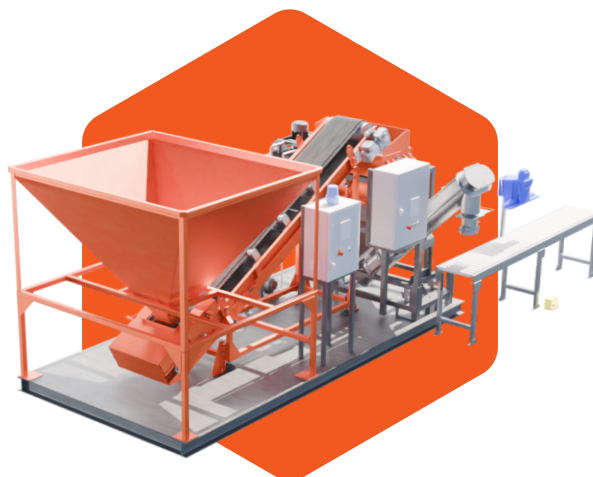
STANDARD EQUIPMENT

AGGREGATE & MIXER

- Hopper with a capacity of 2.2 m³ and 4000 kg
- Chevron belt conveyor inclined at 30°, adjustable position
- Mixer with a 100 kg capacity on 4 load cells
- 6-blade mixing shaft
- Injection ramp for water and emulsion
- Operated hatch with pneumatic cylinder
- Single-frame structure

INJECTION LINES

- Fixed flow peristaltic pump for water injection
- 100 L water tank
- Aggregate moistening in parallel with aggregate feeding
- Fixed flow gear pump for emulsion injection
- Emulsion line with heating element to maintain 50°C
- Pneumatic valve for emulsion injection
- Overpressure safety in case of blockage



OPTIONS

PACKAGING

Fresh asphalt receiving hopper mounted on 4 load cells, anti-clogging protective grate, reinforced steel screw conveyor with variable frequency drive, anti-rust surface treatment, asphalt discharge outlet with bag/bucket clamps, bottom drain for cleaning, connection to the mixing unit's automation system.

SEALING

2.1 m conveyor with cylindrical rollers, height-adjustable pantograph to fit packaging formats, impulse heat sealer with pulse control for bag sealing, double guide rails, and removable retractable stop.

OUTPUTS

2 tons per hour – 3,000 tons per year of emulsion asphalt mix.

CLASSIC EMULSION ASPHALT MIX

- Bitumen emulsions 60–68%
- For small surfaces and trenches

STORABLE ASPHALT MIX

- Fluxed bitumen emulsions 60–68%
- For potholes and trenches

DECORATIVE ASPHALT MIX

- Light-colored binder emulsions 60–68%
- For parking areas, bike paths, driveways, and private work-sites.

FUNCTIONALITIES

- Automatic dosing of aggregates, water, and emulsion according to the selected formula
- Adjustable batch weight
- Programming of continuous production cycles
- Adjustment of mixing time and delays between cycles
- Intelligent discharges for quantity adjustment
- Manual control available for all components

TECHNICAL DATA

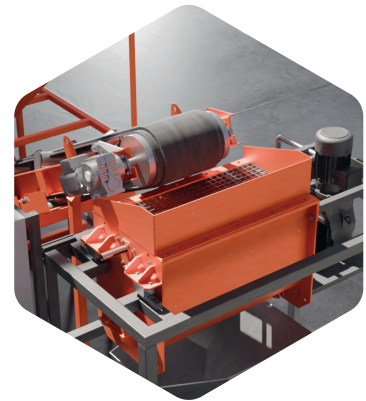
Capacity	2 T/h
Hopper	2.2 m ³ , 4000 kg
Aggregates	2/4, 2/6, 2/8
Control	Automatic
Heating	Electric
Structure	Single-frame structure

| INNOVATION

Contacted by several companies seeking a compact asphalt mixing solution, VIALAB developed **Emix**. The unit's model was subsequently patented and has since been continuously improved to make it compatible with an ever-wider range of applications.

With the ongoing development of innovative and environmentally friendly materials, the demand for independent and appropriately sized units is growing stronger.

Facing the challenges of the circular economy and reducing greenhouse gas emissions, VIALAB embraces a culture of innovation and is committed to supporting development initiatives in the field of road emulsions.

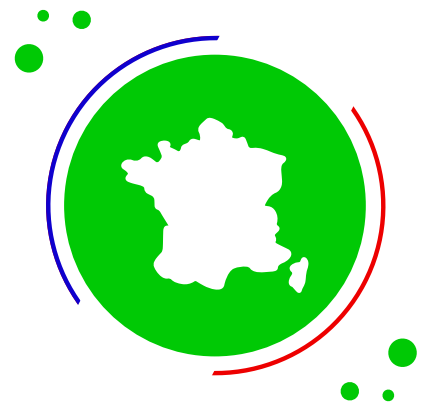


| FRENCH INDUSTRY

Emix, like all VIALAB units, is designed and assembled in France. Based in Brittany, VIALAB draws on 90 years of experience in the industry and production of road emulsions, working closely with construction professionals.

Thanks to its laboratory, VIALAB upholds scientific rigor and expertise. The industrial facilities and laboratory equipment offered by VIALAB are fully tested to ensure compliance with best practices and current testing standards.

Emulsion technologies, VIALAB's core expertise, contribute to the preservation of road networks and represent a real lever for decarbonization in the road construction sector.



| OUR STRENGTH



TECHNICAL SUPPORT

An in-depth discussion to identify the technical solution best suited to your needs.



ASSISTANCE

Continuous support, from commissioning to unit maintenance.



TRAINING

Training sessions to master emulsions, from the laboratory to industrial production.



LABORATORY

A wide range of laboratory equipment to develop and control road binders.



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