

Workability additives for asphalt mixes

The warm mix additives **Cecabase RT®** are patented specialty surfactants. A small quantity into the binder improves dramatically the workability of bituminous mixtures. They can be produced and paved at temperatures **40°C cooler** than standard hot mixes, without any process modification or loss of mechanical properties.

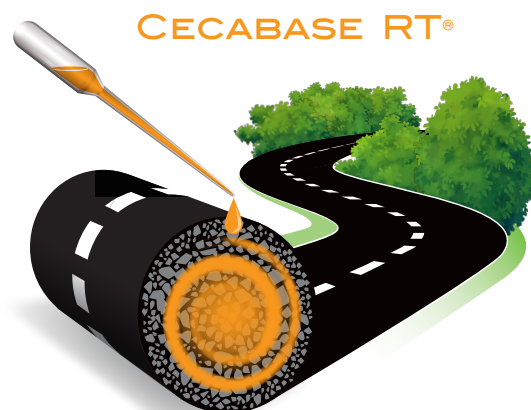


SOLUTION PROVIDER

- **Liquid** additive readily soluble into the bitumen
- **Dosage:** 0.3-0.5wt% for all types of binders
- No change of bitumen grade, no curing time
- Injection **into the binder** at the mix plant, or **at the asphalt terminal**
- Storage stability **minimum 1 week** at 160°C.

PERFORMANCE

- Efficient on **all mix types**, even for thin layers.
- Workability improvement of **"difficult" mixes**: high recycled material materials content (RAP/RAS), modified bitumen, mastic asphalt...
- Mechanical performances of warm mix **similar to the control hot mix**



A true worldwide reference

- Technology protected by more than 40 patents.
- First field trials in 2004.
- Additive approved and used by more than 150 customers in 50 countries.
- Several million tons of asphalt mixes are produced each year with Cecabase RT®.

WE DRIVE YOUR SUCCESS!

... Savings:

- 20 to 30% energy savings
- Increased plant capacity (up to 30%)
- Faster compaction and opening to traffic

... Flexibility:

- Compaction aid / Workability improvement
- Night and off-season work
- Longer hauling (up to 3 times)

... Sustainability:

- Lower bitumen smell and greenhouse gases emissions
- Increased use of RAP (+15% or more) and RAS
- Less fumes and heat for the workers



	ASPECT	VISCOSITY AT 25°C (cP)	DENSITY (kg/m ³)	TYPICAL DOSAGE (wt % of bitumen)	BENEFITS
Cecabase RT® 935	Liquid	920	1 020	0.3-0.5	Excellent workability, biodegradable
Cecabase RT® 945		600	995		Reference grade, optimum balance between workability and cohesion
Cecabase RT® Bio10		800	1 000		Biodegradable, not dangerous, no smell

Other products are available by contacting our teams to correspond perfectly to your requirements.

Your local contact will confirm product availability in your country.

ARKEMA'S OVERALL APPROACH FOR THE ROAD INDUSTRY

- A large product portfolio (thixotropic agents, breaking control additives and interface adhesion promoters,...)
- A dedicated technical and commercial network
- Sales, logistics and customer service teams work closely to ensure reliable deliveries
- Partnerships with reference regional players and a global service offer with tailor-made products



Our team of specialists is committed to assisting you for a safe and efficient production of warm mix asphalt.

A designer of materials and innovative solutions, Arkema shapes materials and creates new uses that accelerate customer performance. Our balanced business portfolio spans high-performance materials, industrial specialties and coating solutions. Our globally recognized brands are ranked among the leaders in the markets we serve. Reporting annual sales of €7.5 billion in 2016, we employ approximately 20,000 people worldwide and operate in close to 50 countries. We are committed to active engagement with all our stakeholders. Our research centers in North America, France and Asia concentrate on advances in bio-based products, new energies, water management, electronic solutions, lightweight materials and design, home efficiency and insulation. www.arkema.com

Please consult Arkema's disclaimer regarding the use of Arkema's products on <http://www.arkema.com/en/products/product-safety/disclaimer/index.html>