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: 0.2-0.5wt% 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

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<table>
<thead>
<tr>
<th>ASPECT</th>
<th>VISCOSITY AT 25°C (cP)</th>
<th>DENSITY (kg/m³)</th>
<th>TYPICAL DOSAGE (wt % of bitumen)</th>
<th>BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cecabase® RT 935</td>
<td>Liquid</td>
<td>920</td>
<td>1 020</td>
<td>Excellent workability, biodegradable</td>
</tr>
<tr>
<td>Cecabase® RT 945</td>
<td>Liquid</td>
<td>600</td>
<td>995</td>
<td>Reference grade, optimum balance between workability and cohesion</td>
</tr>
<tr>
<td>Cecabase® RT Bio10</td>
<td>Liquid</td>
<td>800</td>
<td>1 000</td>
<td>Biodegradable, not dangerous, no smell</td>
</tr>
</tbody>
</table>

Other products are available by contacting our teams to correspond perfectly to your requirements.
Your local contact will confirm product availability in your country.

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**CECA’s overall approach for the roads 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

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

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CECA, subsidiary of Arkema Group, is a world player in specialty chemicals. CECA’s constant focus is enhancing the performance of its customers, preparing and developing for them intermediate chemicals and additives. CECA has a strong industrial European base and two research centers (GRL and CRRA) to support innovation by customers.

All elements contained in this document result from tests at our Research Centres, complemented by selected documentation: they however do not construe a guarantee or a formal commitment on our part. Only the specifications define the limits of our commitment. The handling of products, their implementation and their application are subject to the regulations resulting from the legislation in force in each country.