



## Case Study Asphacal® TC

# Protecting tack coats

### Context

Tack coats are generally obtained by the spreading of a cationic bitumen emulsion ensuring good adhesion between the various asphalt layers of asphalt pavement. It is acknowledged that the lifetime of a road can be reduced up to 5 times in the absence of tack coats. Depending on the conditions encountered on the construction site (outside temperature, type of emulsion and substrate...), the tack coat is often torn off by the tyres and caterpillars of the construction machinery and trucks, which in turn does not allow for an effective adhesion between asphalt layers and therefore significantly reduces the durability of the structure.

### The solution: Asphacal® TC

Spreading Asphacal® TC on the tack coat eliminates tack coat-tyre adhesion, thus limiting its detachment due to construction site traffic. As a result, the site approaches and the surrounding road networks remain clean and free of bitumen residue stuck to construction site trucks tyres. Ground marking is thus left intact. Also, the construction equipment is a lot easier to clean.

### Application

Asphacal® TC is generally spread using brine spreaders or modified emulsion spreaders. Asphacal® TC is generally used at a 10-fold dilution in water. The suspension is then spread at approximately 250g/m<sup>2</sup> on the tack coat once the emulsion has broken. Asphacal® TC can be delivered in bulk or in 1 m<sup>3</sup> containers.

### Conclusion

Asphacal® TC is an easy-to-use solution for:

- Reducing the impact of construction site traffic on the quality of the tack coat and thus improving structures durability.
- Decreasing the environmental impact of the construction site, particularly in urban areas.
- Facilitating acceptance of the construction work by local residents.

Asphacal®, the Lhoist product range dedicated to asphalt mixtures, supports the actors in transport infrastructure construction for more durable works.



[www.asphacal.com](http://www.asphacal.com)

Contact:  
[info@lhoist.com](mailto:info@lhoist.com)

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Tyres no longer stick to tack coats after spreading Asphacal® TC



Spreading of Asphacal® TC



Asphalt laying after Asphacal® TC spreading