

**VA EVO
ADDITIVES**

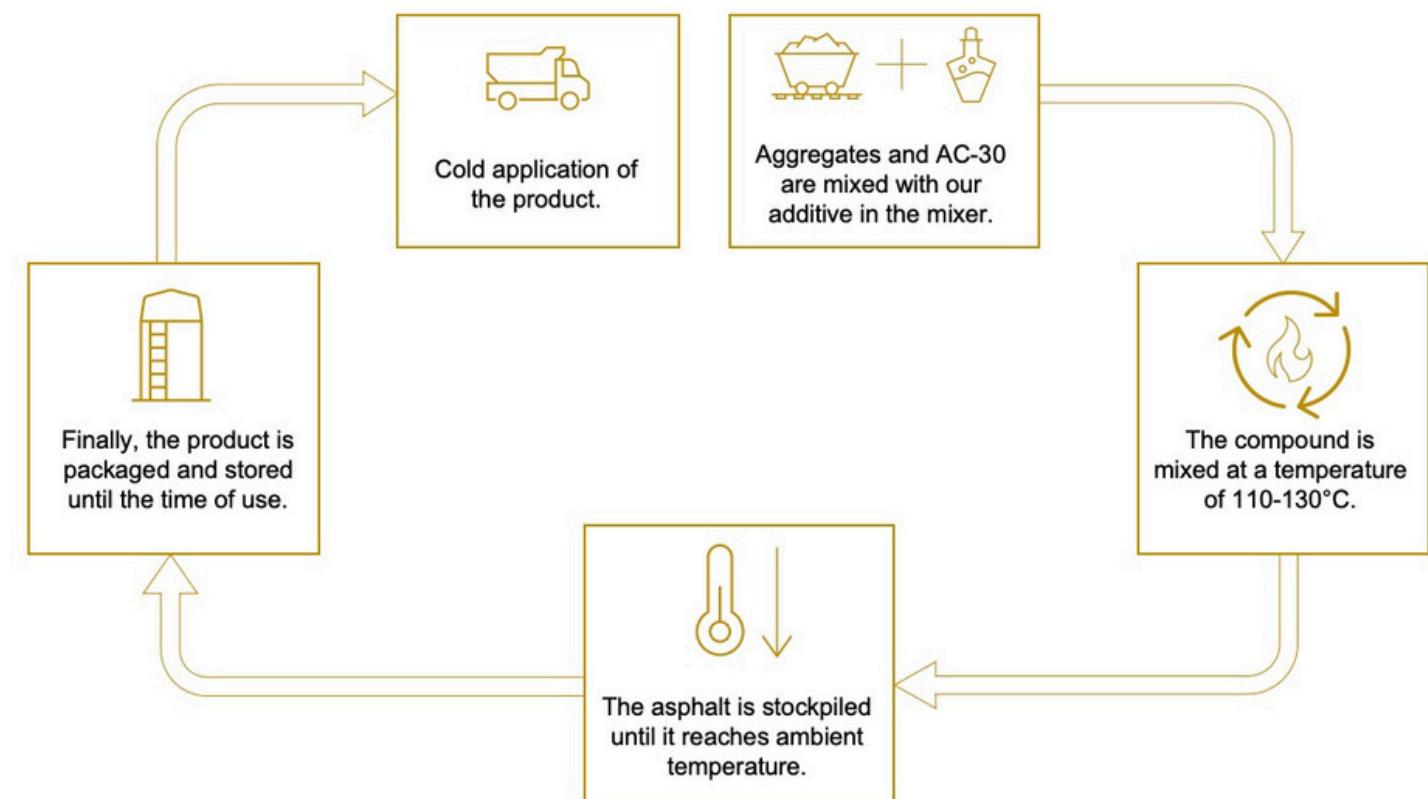
BRUN US KD-7

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BRUNUS KD-7, is an organic additive for the manufacture of conventional semi-hot asphalt mixtures with improved characteristics, that can be applied at ambient temperatures. This product has been developed with the aim of facilitating road maintenance operations and achieving the same performance as hot manufactured asphalt but with cold application, reinforcing safety during application.

BRUNUS KD-7 guarantees healthy, plastic, and workable cold mixes for long periods of time. Surplus asphalt can be stored for up to 24 months and used in the future with no characteristic deterioration, leading to a reduction of waste material. This advantage contributes to increased flexibility relating to operations' logistics and improved environmental footprint due to waste reduction. Furthermore, its setting delay allows us to work more efficiently in adverse climate conditions.

How to manufacture asphalt with **BRUNUS KD-7**



BENEFITS

Benefits of using **BRUNUS KD-7** additive for asphalt manufacturing include:

Asphalt Mix with BRUNUS KD-7	Benefits
✓	Lower energy consumption, as it is produced at lower temperatures when compared to conventional asphalt.
✓	Demonstrates greater fluxing properties than conventional mineral products, which allows reducing the comparative doses of use.
✓	Can be stored for up to 24 months, allowing for future applications without inconvenience or properties' deterioration.
✓	No need for heavy machinery during application.
✓	Can be applied in extreme and changing weather conditions, including snow and rain.
✓	Ready to use cold asphalt.
✓	Once applied traffic can be resumed immediately, avoiding traffic disruptions.
✓	Asphalt designed to be resilient and durable.
✓	Suitable for CE marking

APPLICATION

The resulting asphalt is applied in 3 easy steps, allowing traffic to resume immediately after application.

1 Clean the area

Before applying the asphalt, it is recommended to clean the working area. The presence of humidity or water residues is not an impediment.



2 Pour the asphalt

Pour the asphalt directly into the pothole or area to be repaired. Make sure to cover approximately two centimetres outwards from the perimeter of the area to be repaired to prevent future retraction.



3 Compact the asphalt

To finalize the application, compact the asphalt using basic compaction tools, such as a metal plate tamper or a roller compactor. For better sealing, it is recommended to moisten the mixture during compaction.



If the pothole is very deep, it is recommended, to apply the product in layers of 5 centimetres at a time to improve compaction with a bigger granulometry at the base (AC-25) and smaller above it (AC-11).

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Additive for Asphalt Mix Improvement

Our **BRUNUS KD-7** additive allows production of semi-hot asphalt, capable of being applied cold.



Asphalt manufacturing with **BRUNUS KD-7** is between 110 and 130°C, so it consumes less energy and produces fewer greenhouse gases.

Workable in areas with extreme, changing, or adverse climates.



Immediate return of traffic, reducing delays for users.

Adding **BRUNUS KD-7** results in:



LOWER RISK



LESS ENERGY EXPENDITURE



EASY WORKABILITY



STORABLE (+2 YEARS)



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