

COLD MIX REGENERATING ADDITIVE

APPLICATIONS

iCold ACF is a next-generation chemical functional additive used in cold applications that restores oxidized bitumen and allows for the creation of new asphalt concrete pavement using 100% reclaimed asphalt pavement (RAP) on-site or in a mixing plant.

iCold ACF allows for the replacement and restoration of degraded road pavement without the need for new hot asphalt concrete.

ADVANTAGES

Logistic and Operational Advantages

Rapid Restoration: Damaged surfaces are restored quickly and for a sufficient period, allowing for appropriate planning of activities at acceptable costs.

Compact and dynamic jobsite: There is no need for large machinery, significantly reducing traffic disruptions. The work requires only a few workers and one vehicle equipped with the necessary tools.

Cost Savings: Eliminates costs for purchasing and transporting raw materials, such as bitumen and quarry aggregates.

Environmental Advantages

Zero Impact: Previously existing materials are reused, and worn asphalt concrete is recycled and restored. This operation can be technically repeated even during the subsequent maintenance.

Sustainability: Utilizing recycled materials contributes to environmental sustainability by reducing waste in landfills and conserving natural resources. It aligns with green construction practices.

METHOD OF USE

Application with Road Milling Machines: iCold ACF can be used in conjunction with a road milling machine. After the first milling pass, the required amount of the additive should be evenly distributed over the milled asphalt, then the mixture should be re-mixed with the milling machine. If the pavement has potholes, it is recommended to fill them with Reclaimed Asphalt Pavement (RAP) beforehand. If using a milling machine equipped with a water or additive supply system, milling and mixing can be performed in a single pass.

Stationary Equipment Application: iCold ACF can also be used with a stationary equipment. The RAP and additive should be introduced into a forced-action mixer (such as a pugmill in asphalt plant, soil mixer, or planetary mixer for cement concrete) and intensively mixed.

The regenerated mixture should then be leveled and compacted using a road roller or vibrating plate. After compaction, the road can be opened to traffic immediately.

DOSAGE

The quantity of iCold ACF ranging from 1.0% to 2.0% of the weight of the RAP (milled material). This amount may vary, however, after carrying out laboratory tests.

COMPOSITION

Solution of various chemical components, each of which has a specific function in relation to oxidized bitumen (antioxidant, fluxing, regenerating, wetting, thinning and dispersing agents) in plant oil.

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance	liquid	Brookfield Viscosity at 15°C (cPs)	700
Colour	Dark-brown	Flash Point	>60°C
Density at 15°C	0,90 kg/l ±0,02	Solubility in water	no

STORAGE

iCold ACF can be stored for 36 months in its original, sealed packaging. Avoid direct exposure to the sun. Depending on the storage temperature the product may assume a different consistency, however the quality of the product will not be compromised.

PACKAGE

The product supplied in 1000 kg IBC tank or 200 kg drums.

WARNING

The dispersion of the pure product into the soil or water must be avoided. For further information on the classification, protection measures and measures in case of fire, please refer to the safety data sheet, available at request.