

FLUXING OIL FOR COLD PATCH ASPHALT MIX

APPLICATIONS

iCold Oil is a plant oil-based mixture with special additives that enables the production and long-term storage of bitumen conglomerates with a plastic consistency, even at low temperatures. iCold Oil is particularly effective due to its chemical-physical properties, which significantly reduce the viscosity of bitumen and promote a more even coating of aggregates, maintain the workability of the mixture at low temperatures, guarantees good cohesion and rapid increase in mechanical strength after laying in a pothole.

ADVANTAGES

Ease of Use: Cold patch asphalt mix prepared with iCold Oil is ready to use straight from the bag or container without the need for heating, making it a convenient option for quick repairs.

Versatility: It can be applied in a wide range of weather conditions, including cold or wet environments, where traditional hot mix asphalt might not be suitable.

Cost-Effective: Cold patch asphalt mix is generally less expensive to apply because it requires minimal equipment and labor, reducing overall repair costs.

Quick Application: Repairs can be completed rapidly, minimizing disruption to traffic and allowing for immediate use of the repaired surface.

No Specialized Equipment Needed: Unlike hot mix asphalt, Cold patch asphalt mix does not require specialized equipment for heating and application, making it accessible for smaller projects or emergency repairs.

Storage Stability: Cold patch asphalt mix prepared with iCold Oil can be stored for extended periods without hardening, allowing for on-demand use and reducing waste.

Minimal Preparation: The preparation for cold patch application is typically minimal, which speeds up the repair process.

Durability: Cold patch asphalt mix prepared with iCold Oil has improved durability and resistance to weathering, providing a reliable temporary repair solution.

METHOD OF USE

iCold Oil should be added directly to the mixer at the asphalt plant using a dosing pump or manually. It is recommended to use clean and dried crushed aggregates fractions of 0-4 and 3-8 mm. The temperature of the bitumen should be constant, ranging from 150°C to 160°C, while the temperature of the aggregates at the time of mixing should not exceed 120°C to 140°C. The residual moisture content of the aggregates after the drying drum should not exceed 0,25%. Bitumen with a penetration grade of 70/100 or 90/130 is recommended for preparing cold repair mixtures. In some cases antistripping agent should be added.

The sequence of operations in the Production of Cold patch asphalt mix prepared with iCold Oil:

1. Load the heated aggregates into the mixer.
2. Add the required amount of neat bitumen.
3. Mix for 10 seconds until the aggregates are uniformly coated with bitumen.
4. Add the iCold Oil additive to the mixer.
5. Mix for 20 seconds until a uniform, pliable mixture is obtained.
6. Discharge the mixture.

The produced mixture should be laid on a flat, hard, and dry surface. Immediately after production, the mixture should NOT be covered with a tarp. Packaging or use of the cold repair mixture is possible no less than 24 hours after production.

The mixture is guaranteed to retain its properties for up to 1 year. It should be stored in stacks or can be packaged in airtight containers or polyethylene bags, which should then be hermetically sealed.

DOSAGE

The amount of iCold Oil required varies according to the desired plasticity of the mixture, the climate area of use, the type of bitumen used and the granulometric design of the mixture. As a general rule, the recommended dosage varies from 20% to 35% on the weight of the bitumen.

It is essential to conduct laboratory tests to determine the optimal dosage for a specific project.

COMPOSITION

iCold Oil is a mixture of different low-viscosity plant-based oils and solvents.

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance	liquid	Brookfield Viscosity at 15°C (cPs)	10-20
Colour	Dark-brown	Flash Point	>150°C
Density at 15°C	0,85-0,95 kg/l	Solubility in water	no

STORAGE

iCold Oil may be stored for 12 months in a sealed container protected from freezing weather, preferably at a temperature between +0°C and +40°C. It is recommended to avoid exposing iCold Oil to direct sunlight. 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 900 kg IBC tank or 180 kg drums.

WARNING

For further information on the classification and protection measures, please refer to the safety data sheet, available at request.