

CELLULOSE FIBERS STABILIZER

APPLICATIONS

iFiber C is a pure cellulose stabilizing microfiber bonded with a high-quality organic binder.
iFiber C Is used for the elaboration of any type of mix, particularly for semi-open, open and SMA type.
iFiber C stabilizes the asphalt binder by preventing it from draining off or separating from the aggregates. This stabilization ensures that the binder remains in place, contributing to a thicker film around the aggregates. This is contribute to the overall performance, stability, and longevity of asphalt concrete, making it more resistant to wear, cracking, and environmental impacts.

ADVANTAGES

- Using iFiber C offers several advantages:
- **A short opening time** allows for quicker incorporation of cellulose fibers into the mix. This advantage can enhance overall production speed, leading to higher output rates and reduced operational costs. Rapid opening promote a more uniform distribution of cellulose fibers throughout the mixture, which helps prevent effect of bleeding;
 - **Surface Area Increase:** the fibrous nature of iFiber C provides a larger surface area for the asphalt binder to adhere to. When fibers are mixed with the asphalt, they create more contact points, allowing for a thicker layer of binder to form around the aggregates;
 - **Enhanced Viscosity:** iFiber C increase the viscosity of the binder mixture. A more viscous binder is less likely to migrate or bleed, which helps maintain the thickness of the binder film during the lifespan of the pavement;
 - **Improved Adhesion:** The interaction between the cellulose fibers and the asphalt binder enhances adhesion;
 - **Improved Cohesion:** iFiber C enhance the cohesion between the aggregates. This improved binding leads to better overall stability, as the materials work together cohesively rather than separating under stress;
 - **Reduction of Moisture Sensitivity:** iFiber C can also help mitigate moisture damage, which can weaken the asphalt mix.

METHOD OF USE

iFiber C should be added directly in to the mixing plant during a loading of aggregates to the mixer, by an automatic dosing plant
It is required a dry mixing time about 7-10 sec.

DOSAGE

The amount of iFiber C required is normally between 0,2% and 0,4% of the weight of the aggregates. This amount may vary, however, after carrying out laboratory tests during the design phase of the mixture.

COMPOSITION

Pellets of cellulose fiber.

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance	pellets	Ash content at 500°C, %	15÷25
Diameter	4-7 mm	Resistance to temperature	
Colour	From grey to brown	(weight loss at 220°C), %	< 4
Apparent Density	0,35 ÷ 0,55 g/cm ³	Absorption of oil	≥ 6 times fiber's weight
Humidity, %	< 5,0		

STORAGE

iFiber C should be stored for 24 months in it's original package sheltered from water and humidity.

PACKAGE

The product supplied in 500 kg Big-bags.

WARNING

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