

FLUXING OIL FOR BITUMENOUS EMULSIONS

APPLICATIONS

iEmul Oil is a new generation plant-based additive used in the preparation of all types of bituminous emulsions. It functions by softening the bitumen, reducing its viscosity, and enhancing its ability to coat aggregates effectively. This modification is particularly beneficial in cold weather conditions or when working with dense or dusty aggregates.

ADVANTAGES

- Improved Workability:** iEmul Oil enhances the workability of bitumen emulsions, making them easier to handle and apply, especially at lower temperatures.
- Enhanced Penetration:** It allows for better penetration of the bitumen into the aggregate, leading to a more uniform coating.
- Extended Working Time:** By reducing the viscosity, fluxing oil provides a longer working time for the application of the emulsion, which is advantageous in large-scale projects or under challenging environmental conditions.
- Logistic Savings:** iEmul Oil enables the use of low penetration grade bitumen, typically used for asphalt concrete, in the preparation of bitumen emulsions. This eliminates the need to purchase and store different types of bitumen.
- Sustainability:** Most components of iEmul Oil are derived from renewable resources and are biodegradable, minimizing environmental impact and reducing potential harm to ecosystems.
- Reduced Emissions:** Using iEmul Oil can result in lower emissions of volatile organic compounds (VOCs) during application and curing, improving air quality and worker safety.

METHOD OF USE

The iEmul Oil should be added in to the bituminous phase during the preparation of slow-setting bituminous emulsions. After this the bitumen must be thoroughly mixed. In some cases antistripping agent should be added.

DOSAGE

iEmul Oil ACF is usually added to bitumen emulsions in concentrations ranging from 1% to 5% by weight of the bitumen content. For applications requiring enhanced flexibility or workability, such as cold weather paving or using dense aggregates, the dosage might be on the higher end of the range. It is essential to conduct laboratory tests to determine the optimal dosage for a specific project. These tests will help assess the emulsion's viscosity, workability, adhesion, and restoring properties to find the right balance.

COMPOSITION

iEmul Oil is a mixture of different low-viscosity plant-based oils.

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance	liquid	Brookfield Viscosity at 15°C (cPs)	700
Colour	Dark-brown	Flash Point	>180°C
Density at 15°C	0,90 kg/l ±0,02	Solubility in water	no

STORAGE

iEmul Oil 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

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