

## FLUXING OIL FOR COLD-RECYCLING EMULSIONS

### APPLICATIONS

iEmul Oil ACF is a new generation plant-based additive used in the preparation of slow-setting bituminous emulsions for the cold-recycling process. It has two actions: fluxing and restoring. 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. iEmul Oil ACF also helps the bitumen emulsion to restore oxidized bitumen, which is contained in RAP (Reclaimed Asphalt Pavement).

### ADVANTAGES

- Improved Workability:** iEmul Oil ACF 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 oxidized bitumen film on the aggregates surface, leading to improved adhesion and 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 ACF allows for the preparation of bitumen emulsions from bitumen with a low penetration grade, which is typically used for the preparation of asphalt concrete. It eliminates the need to purchase and store different types of bitumen.
- 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

The iEmul Oil ACF should be added to the bituminous phase during the preparation of slow-setting bituminous emulsions. After this, the bitumen must be thoroughly mixed.

### 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

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	>150°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 is 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.