



**HOT & COLD AGED BITUMEN REGENERATORS**

## **ITERLENE ACF**

### **Bitumen Rejuvenator for HMA**

ITERLENE ACF 1000 is a multifunction liquid additive, dosed directly in the binder permits to "regenerate" the milled bitumen used in the mix production. It carries out multiple functions towards the bitumen such as antioxidant, plasticizer, rejuvenator, moisturizer, diluent and dispersant.

It can be added directly in the storage bitumen cistern or in line during the production process.

ITERLENE ACF 1000 acts as a high active antistripping agent towards the bitumen.

## **ITERLENE A.C.E.R.**

### **Emulsifiable rejuvenator for milled material**

ITERLENE A.C.E.R. 1000 is a multifunction emulsifiable additive for milled bituminous materials, studied for the cold recuperation of milled material. It is formed by particular chemical components that carry out multiple functions towards the aged milled bitumen such as antioxidant, rejuvenator, moisturizer, diluent, dispersant and antistripping agent.

ITERLENE A.C.E.R. 1000 is easy to emulsify in water by a simple agitation, without any help of a specific plant.



**Hot Rejuvenators**  
**Modify the bitumen's chemical**  
**and physical structure**



**Cold Rejuvenators**  
**Modify the bitumen's chemical**  
**and physical structure**





## Hot Bitumen Regenerator

### Modify the bitumen's chemical and physical structure

The **hot regenerators** modify aged bitumen's chemical and physical structure which reduces the rigidity of the new coat, produced using a milled material addition.

### ITERLENE ACF 1000 | HMA BITUMEN REGENERATOR

#### 1. APPLICATION

ITERLENE ACF 1000 has the following properties:

Is a multifunctional liquid additive which, dosed directly into the binder, permits to “regenerate” the bitumen from materials used in the mix manufacturing.

Carries out multiple functions towards the bitumen: antioxidant, plasticizer, regenerator, moisturizer, diluents and dispersant.

Can be added directly in the storage bitumen cistern or in line during the production process.

Acts as a high active anti stripping agent towards the bitumen.

#### 2. DOSAGE

ITERLENE ACF 1000 dosage varies from 0,4 to 0,6% by the added bitumen weight for every 10% of used milled material.

#### 3. COMPOSITION

Modified Alkylamidopolyamine mix.

#### 4. PHYSICAL PROPERTIES

Aspect Fluid substance

Colour Brown

Density at 20 C 0,91 0.02 g/cm<sup>3</sup>

Viscosity at 25 C 60 10 cP

Flash point 180 C



## **Cold Bitumen Regenerator.**

Modify the bitumen's chemical and physical structure

The cold rejuvenators modify aged bitumen's chemical and physical structure which reduces the rigidity of the new coat, produced using a milled material addition.

### **ITERLENE A.C.E.R. 1000 | EMULSIFIABLE REGENERATOR FOR MILLED MATERIAL**

#### **1. APPLICATION**

ITERLENE A.C.E.R. 1000 has the following properties:

Is a multifunction emulsifiable additive for milled bituminous materials, studied for the cold recuperation of milled material.

Is composed of particular chemical components which carry out multiple functions towards the aged milled bitumen: antioxidant, moisturizer, diluent, dispersant and antistripping agent.

Acts as an antistripping agent towards the bitumen.

Is easy to emulsify in water by a simple agitation, without any help of a specific plant.

#### **2. DOSAGE**

ITERLENE A.C.E.R. 1000 must be emulsified in advance, in a ratio of 1 to 20 in water. The obtained dissolution will be used as the aqueous solution in the percentage indicated by the project mix design.

#### **3. COMPOSITION**

Mixture of high-boiling oils and non ionic surface-actives.

#### **4. PHYSICAL PROPERTIES**

Aspect liquid

Colour brown

Density at 20 C 0,960 0.02 g/cm<sup>3</sup>

Viscosity at 25 C 200 10 cP

Flash point > 200 C