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ITERFORT PH17 ADDITIVE FOR THE CHEMICAL MODIFICATION AND STABILIZATION OF BITUMEN

1. APPLICATION

ITERFORT PH17:

STABILIZING FUNCTION:

- Is a product specially studied as a stabilizer and to enhance the homogeneity for polymer modified bitumen;
- Acts as a catalyst between polymer and bitumen. Stabilizes the final viscosity, avoiding the separation of the polymer in the storage tank, normally caused by prolonged heating of the material;
- Must be added to the mass during the production of the modified bitumen and after the complete dissolution of the polymer;
- The mixture for the modification must be realized at a temperature 370-390°F (190°- 200°C), for approximately 30 minutes to allow the start of the reticulation chemical process;
- To complete the modification it is necessary to keep the mixture in storage tanks for at least 8-10 hours at a temperature of 320-360°F (160–180°C) before using it.

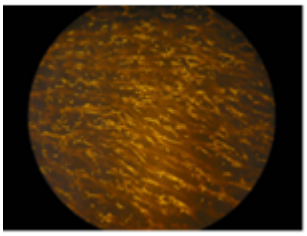
MODIFYING FUNCTION:

- ITERFORT PH17 allows to reach performances comparable to those obtained with normal elastomers through a chemical - not physical - interaction, working on ring and ball and penetration parameters, but not affecting the viscoelastic characteristics of the bitumen itself.
- It should be introduced in the tank of the bitumen to be modified and homogenized for at least 2 hours at a temperature ≥ 330°F (165°C).
- It requires a curing time of the bitumen, after additive is added, of at least 12 hours at a temperature of 300°F (150 °C).

THE MODIFICATION OF THE BITUMEN WITH ITERFORT PH17 IS AFFECTED BY THEIR CHEMICAL COMPOSITION, SO A PRELIMINARY LABORATORY STUDY IS RECOMMENDED TO IDENTIFY THE OPTIMAL MODIFICATION.

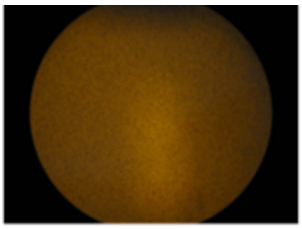
2. DOSAGE

- STABILIZER: dosed from 0,4% to 0,6% of bitumen weight, according to the compatibility between the polymer and bitumen used.



Without additive.

With additive Iterfort PH17.



- MODIFIER: used in a ratio between 1% and 2% of bitumen weight.

ONCE THE ADDITIVE IS ADDED THE BITUMEN SHOULD BE USED WITHIN 48 HOURS TO AVOID GELLING PHENOMENON ON THE PRODUCT.

3. COMPOSITION

Mixture made of inorganic acid substances.

4. PHYSICAL PROPERTIES

Aspect	viscous liquid
Density	about 2 g/cm^3

5. STORAGE

Sheltered from weather conditions and in the original package.
The product lasts about 12 months.

6. PACKAGE

In totes of 2200lb (1000 Kg).

7. SAFETY PRECAUTIONS

See product's MSDS.

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