

## WINTERPAVE® AD | ANTI-FREEZE PRODUCT FOR BITUMINOUS MIXES

### 1. APPLICATION

WINTERPAVE® AD has been studied to delay the adhesion of ice to the road surface:

- New concept additive composed by special components;
- Lowers the freezing point of water on the road surface;
- Interferes with the formation of ice crystals. The resulting ice structure is very brittle and does not adhere to the pavement;
- Is dispersed homogeneously within the mix without changing its structural characteristics;
- the chemical nature of the product is projected to allow a slow and steady release of its active components which, once in contact with water in the liquid state, act as inhibitors of the ice formation process;
- Ice can be easily removed by snow clearing equipment;
- Gives more time to intervene to salt spreaders and snow clearing equipments.

### 2. DOSAGE

WINTERPAVE® AD dosage can vary from 4% to 5% on aggregate weight according to the environmental conditions of the application's site and of the type of paving used.

The additive is added to the mixer during the mix's production phase.

### 3. COMPOSITION

Organic and inorganic components (contains chlorides) and anti-dust additive.

### 4. STORAGE

The product must be kept away from humidity otherwise it will tend to create lumps or clumps.  
The product must be kept away from heat sources, sheltered from weather conditions and in its original package.

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## 5. PACKAGING

Big-Bag or in low melt bags of 15, 20 or 25 kg.

## 6. SAFETY PRECAUTIONS

Please see the product's MSDS.

## 7. TECHNICAL CHARACTERISTICS

Colour from white to light brown

Apparent density 1.2-1.3 [g/cm<sup>3</sup>]

## 8. APPENDIX TO TECHNICAL DATA SHEET

WINTERPAVE® AD a technology under development that has proved successful in several environmental

projects worldwide, and its life expectancy is still under evaluation.

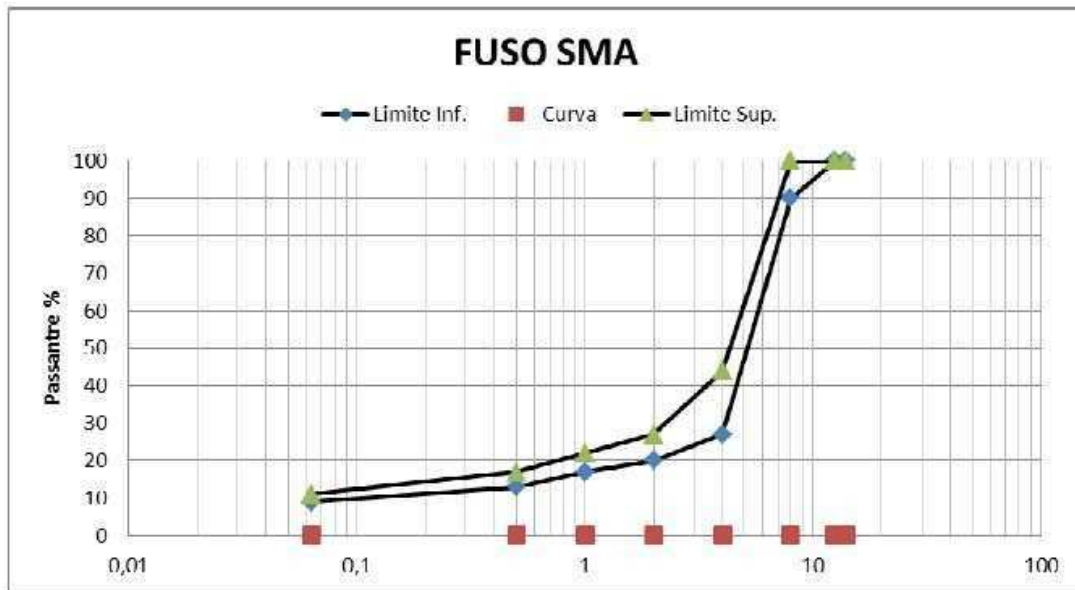
It is an anti-freeze additive used in the phase of mix's realization.

WINTERPAVE® AD is added directly in the plant's mixer in fixed dosages (usually 5% on aggregates weight).

In order to optimize costs and benefits, the product should be used only on low thickness wearing courses. With regard to that, it is recommended to apply a mix like Split Mastic Asphalt with grading fuse 0/8 mm as written here below.

Sieve mm	Lower limit	Upper limit
0,063	9	11
0,5	13	17
1	17	22
2	20	27
4	27	44
8	90	100
12,5	100	100

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The percentage of normal or modified bitumen must be included between 6,0% and 6,5% on aggregates weight.

**N.B. in normal or modified mix, WINTERPAV functions just as an anti-freeze, so it should not be considered among the composing factors of mix design, that's to say that the product, even if it is of thin gradation, doesn't replace the filler.**

**If possible, a preliminary laboratory study is recommended to optimize the performance of the product.**

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