

9.1 polymers

Applications:
Road pavings| Special roads|
Urban and suburban roads with low traffic|
Improved hot mix asphalt| semi open porous asphalt| SMA|
Polymers

Modify the physical structure of the bitumen



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SUPERPLAST COPOLYMER OF PLASTOMERIC NATURE

1. APPLICATION

SUPERPLAST is a particular compound of selected polymers that presents in semi-soft and flexible granules for the modification of the bituminous mixtures.

The compound is used to produce all types of asphalt concrete, where a modification of mixture is needed to improve the mechanical performance.

The modification of asphalt concrete with SUPERPLAST involves the increase of the mechanical resistance and the complex

modulus, the decrease of the accumulation of deformations due to load repetition, leading to an improvement of the fatigue behavior.

SUPERPLAST must be added directly into the mixer of the plant by the use of a dosing plant, thus guaranteeing the homogeneity of the finished product. The release of the product inside the mixer must be carried out after the discharge of the aggregates and before the bitumen, which must be introduced with a delay of about 10 sec, to ensure the homogeneity and dispersion.



Pneumatic dosing plant

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2. DOSAGE

The dosage of SUPERPLAST can vary according to the modification to be made, to the mechanical performances to be reached or according to the instructions mentioned in the Technical Specification of reference. Tentatively, a dosage of 4% - 8% of weight of bitumen is recommended.

3. COMPOSITION

Compound based on polymer with low molecular weight and medium melting point.

4. PHYSICAL PROPERTIES

Aspect	granules
Color	shades of grey
Dimensions	1.00 - 4.50 mm
Softening point	320°F (160°C) - 355°F (180°C)
Apparent density at 80°F (25°C)	0.40 - 0.60 g/cm ³

5. STORAGE

Sheltered from weather conditions.

6. PACKAGE

In bags of 55 lbs (25 kg) or in big bags of 1300-2200 lbs (600-1000 kg).

7. SAFETY PRECAUTIONS

See product's MSDS.