

DOPIRTEC-AK

APPLICATION:

OXIRTEC-PEP is a new and revolutionary concept of pigment for the hot mixes (synthetic or asphaltic), designed to optimize special pavement mixes during the production process. Its new granular formula permits an easier, saver, faster and cheaper color mix

The main benefits of **OXIRTEC-PEP** are:

- 100% dust free granular pigment
- 100% water resistant
- Dosed by filler silo or automatic dosing systems
- Improves color intensity and mechanical properties of the mix
- Reduces the binder content of the mix
- 40% less pigment quantity, optimizing production costs
- Increases workability even at lower temperatures
- Faster dispersion on mixer

OXIRTEC-PEP should be introduced, manually or automatically, into the mixer of the asphalt plant after the introduction of the aggregates. The operational temperature of the plant is the same of the normal hot mix asphalt. The mixing time should be increased around 20 seconds with respect of a normal hot mix asphalt.

DOSAGE:

The dose of **OXIRTEC-PEP** depends on the shade requested by the customer, but also on the types of binder, aggregates and mix grade design.

Black Bitumen	Synthetic Binder
1,8 - 3,0 %	0,5 - 1,5 %

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The pigment is pre-dispersed in a high resistance polymer and special additives, to optimize pigment compatibility with the binder, allowing a reduction of 40% in the quantities needed to obtain the same color than powder pigments:

With Synthetic Binder:	1,5% pigm-powder = 1,0% OXIRTEC-PEP
With Black Bitumen:	5,0% pigm-powder = 3,0% OXIRTEC-PEP

The dosing could be manually or automatic. Automatic dosing system are available under request.

CHEMICAL FAMILY:

OXIRTEC-PEP is a compound of Fe_2O_3 , E.V.A. and other additives.

STORAGE:

Stable at room temperatures if stored in closed containers and at shadow.

PACKAGE:

OXIRTEC-PEP is supplied in 20 kg thermoplastic bags and 1 mt Big Bags.

SAFETY:

This product is not dangerous, anyway it should be handled with care. In order to avoid injuries, protective gloves and safety goggles should be used. For further information, see our Safety Data Sheet.

PHYSICAL AND CHEMICAL PROPERTIES:

Granule shape	Cylindrical
Granule size, mm	1-5
Melting Point, °C	90°C
Melting Point of bag, °C	110°C
Density, g/cm ³	3.0 3.9
Bulk Density, g/cm ³	1.10

COLORIMETRIC ANALYSIS

COLOUR DIFFERENCE	Unit	Min	Max
DL*	CIE L*a*B	-2.5	+2.5
Da*	CIE L*a*B	-2.5	+2.5
Db *	CIE L*a*B	-2.5	+2.5
DE*	CIE L*a*B	-	5
Relative Tinting Strength	%	95	105



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