

TECHNICAL DATA SHEET

PRODUCT:

OXIRTEC – PEP

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 %

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
	5,0% pigm-powder = 3,0% 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 Fe₂O₃, E.V.A. and other additives**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

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.

The information contained herein is indicative only and without express guarantee. As no control can be exercised over its use, we cannot be held responsible for any damage which may result from its misuse

international road technology consulting s.l.

C/Orquidea 12 – 28981 Parla (Madrid) – SPAIN
info@irtecon.com

Ph. +34 914132159 fax +34 915151503
www.irtecon.com