

## TECHNICAL DATA SHEET

**PRODUCT:****CLEARTEC PEP****APPLICATION:**

**CLEARIRTEC PEP** is a high performance pigmentable synthetic binder for use in manufacturing hot mixes, in granular form so it can be measured out directly into the manufacturing plant's mixer.

It can be stored and handled in its solid state at room temperature. It is possible to use the exact necessary, with no need for prior temperature control. Softening and loss of the product's viscosity occur during the moment of contact with hot aggregates in the manufacturing plant's mixer.

**CLEARIRTEC PEP** has a neutral colour, allowing for the option of using pigments to make coloured mixes.

The **CLEARIRTEC PEP** formulation has been especially designed to resist UV radiation, in order to minimise any possible changes in colouring.

The synthetic binder is pelletized using dusty material. This material gives the product anti-sticking properties that allow their use and handling at room temperature.

The **CLEARIRTEC PEP** synthetic binder is suitable for use in pigmentable mixes, allowing any type of temperature-resistant pigment to be used.

Pigment dosing generally varies between 1.0 and 3.0% by total mix weight.

**DOSAGE:**

The quantities to be used vary depending on the job mix formulation.

**CLEARIRTEC PEP** must be dosed directly into the mix over the mixing element in the asphalt mixing plant.

To achieve a homogenous pigmented mix the binder and the pigment must be introduced into the mixer as soon as the hot aggregate begins to enter the mixer. Adding the binder and the pigment, if applicable, must not take longer than 50 seconds. A minimum time of 20 seconds is recommended for mixing in all the components. Under no circumstances must the total mixing time exceed 90 seconds. It is recommended that industrial tests are carried out to adapt these parameters to each individual manufacturing plant.

Using an unsuitable pigment can cause unexpected effects when finally applying the mix which are totally unrelated to **CLEARIRTEC PEP**.

Mixes will be adjusted to 75% of the maximum capacity of the mixing unit.

Applying and compacting the pigmentable binder must be done using the same criteria as for the bituminous equivalent, following the same guidelines for use.

All the elements involved in the manufacturing, application and compaction processes must be kept in optimally clean conditions, in order to avoid

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unwanted contamination or possible changes in the mix's colouring.

Working temperatures of Recofal S-100P are as follows:

Aggregate temperature	Max. 180°C
Compaction temperature	Min. 135°C

#### CHEMICAL FAMILY:

**CLEARIRTEC PEP** is a synthetic binder.

#### PHYSICAL AND CHEMICAL PROPERTIES:

CHARACTERISTICS	UNIT	TESTING METHOD	SPECIFICATION
Density	g/cm <sup>3</sup>	EN 15326	0.95-1.15
Penetration at 25°C	0.1 mm	EN 1426	20-50
Softening Point	°C	EN 1427	≥ 85
Resistance to hardening			
• <i>Retained penetration</i>	%	EN12607-1	≥ 80
• <i>Softening Point Increase</i>	°C		≤10
• <i>Change in mass (absolute value)</i>	%		≤1.5
Brookfield viscosity at 160 °C	cP	EN 13303	≥ 400
Fraass Breaking Point	°C	EN 12593	≤-20

#### STORAGE:

Bags of **CLEARTEC PEP** are supplied on pallets, wrapped in protective film. It is also possible to supply **CLEARTEC PEP** in Big Bag format.

When storing for long periods of time outside, extra protection such as covering with tarpaulins or plastic is recommended.

Storing at temperatures above 40°C is not recommended. It is advisable to keep the product protected from potential prolonged exposure to sunlight.

#### PACKAGE:

For easy handling and measuring, **CLEARTEC PEP** it is supplied in 20 kg hotmelt bags, which are introduced directly into the plant's mixer. Packing into 500 kg Big Bag facilitates handling when the manufacturing plant has silo or screw dispenser hopper-type machines. is delivered on metallic drums or 200 kg.

#### SAFETY:

Amine products 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*

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