

# RAPIRTEC-DP

## APPLICATION:

**RAPIRTEC-DP** is an additive used for rejuvenating the aged binder of the asphalt pavement during a recycling process of RAP (Reclaimed Asphalt Pavement). It reduces the stiffness of recycled asphalt allowing the using of high dosage of RAP within the mix.

**RAPIRTEC-DP** can be used both in hot and cold systems.

It can be sprayed to the RAP during the hot mix recycling process inside the asphalt plant mixer, or it can be incorporated to the bitumen tank before starting the production process.

In case of cold processes, it can be added to the binder before the production of the emulsion.

**RAPIRTEC-DP** is compatible with any emulsifier for emulsion production and it could be melted in any bitumen.

**RAPIRTEC-DP** acts as fluxing agent, regenerator, plasticizer, and antioxidant for bitumen.

## CHEMICAL FAMILY:

**DOPIRTEC AK** is a compound based on polyamide of fatty acid.

## PHYSICAL AND CHEMICAL PROPERTIES:

Appearance at 20°C	Liquid Dark Honey
Density at 25°C, g/cm <sup>3</sup>	0,86 ± 0,02
Flash Point, °C	> 180
Viscosity at 25°C, St	0,5 ± 1
DROPPING POINT (°C)	< -20
Ammine index, mg KOH/g	20 + 10

## STORAGE:

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

## PACKAGE:

**RAPIRTEC-DP** is delivered in 200 metallic drums or 1000 liters IBC.

## SAFETY:

Chemical 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.



## DOSAGE:

Dosages depends on many factors:

- Rate of RAP within the total asphalt mix
- Characteristic of the aged bitumen
- Mix design of the asphalt mix

According to our experience, the dosage of **RAPIRTEC-DP** varies between 0,20% and 3,00% of the bitumen introduced in the mix.

RAP ON THE MIX %	BITUMEN %	RAPIRTEC-DP (% on bitumen weight)	
		MIN	MAX
10%	5% (50 kg/ton of asphalt)	0,20% (100g)	0,60% (300g)
20%		0,40% (200g)	1,20% (600g)
30%		0,60% (300g)	1,80% (900g)
40%		0,80% (400g)	2,40% (1200g)
50%		1,00% (500g)	3,00% (1500g)

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The below table gives an indication of the variation of the bitumen penetration related to different dosages of **RAPIRTEC**

<b>% of RAPIRTEC</b>	0%	2%	4%	6%	8%
<b>PENETRATION (1/mm)</b> (UNE EN 1426-2015)	11	20	32	45	65

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