

# ECOEMUL P MBC (C60BP4 MBC)

EMULSIONS ■ WARM MIXES

## DEFINITION:

Modified bituminous cationic emulsion designed for manufacturing continuous or discontinuous grade asphalt mixes, in an aggregate manufacturing plant using a warm-mix technique, and in which the original binder is a chemically modified bitumen with Elaster polymers. It meets the specifications included in UNE-EN 13808 standard for a type C60BP4 emulsion.

## SPECIFICATIONS:

Original Emulsion	Unit	Standard	Min.	Max.
<b>Original Emulsion</b>				
Particle polarity	-	UNE EN 1430	Positive	
Breaking value (Forshammer filler)	g	UNE EN 13075-1	110	195
Binder content per water content	%	UNE EN 1428	58	62
Efflux time (2 mm, 40 °C)	s	UNE EN 12846	15	70
Settling tendency (7 days storage)	%	UNE EN 12847	-	10
Residue on sieving (0.5 mm)	%	UNE EN 1429	-	0,1
Adhesiveness	%	UNE EN 13614	90	-
<b>Binder after distillation (UNE EN 1431)</b>				
Penetration (25°C)	0,1mm.	UNE EN 1426	-	100
Softening point	°C	UNE EN 1427	50	-
Cohesion (Vialit pendulum)	J/cm <sup>2</sup>	UNE EN 13588	0,5	-
Cohesion (Strength-ductility 5°C)	J/cm <sup>2</sup>	UNE EN 13589	0,5	-
Elastic recovery (25°C)	%	UNE EN 13398	DV	-
<b>Evaporation residue (UNE EN 13074-1)</b>				
Penetration (25°C)	0,1mm.	UNE EN 1426	-	100
Softening point	°C	UNE EN 1427	50	-
Cohesion (Vialit pendulum)	J/cm <sup>2</sup>	UNE EN 13588	0,5	-
Cohesion (Strength-ductility 5°C)	J/cm <sup>2</sup>	UNE EN 13589	0,5	-
Elastic recovery (25°C)	%	UNE EN 13398	DV	-
<b>Stabilizing residue (UNE EN 13074-2)</b>				
Penetration (25°C)	0,1mm.	UNE EN 1426	-	100
Softening point	°C	UNE EN 1427	50	-
Cohesion (Vialit pendulum)	J/cm <sup>2</sup>	UNE EN 13588	0,5	-
Cohesion (Strength-ductility 5°C)	J/cm <sup>2</sup>	UNE EN 13589	0,5	-
Elastic recovery (25°C)	%	UNE EN 13398	DV	-

DV= Value to declare by the supplier.

## APPLICATIONS:

- High performance continuous or gap-graded warm bituminous mixes.

## GUIDING WORKING TEMPERATURES:

- Application temperature (°C): 10 - 40. Normally the emulsion will be used at supply temperature, and the emulsion will not require warming for aggregate coating, but if it is warmed, special care will be taken to not exceed the limit of 60°C. For this, it is advisable that the emulsion be heated by means that ensure control over the temperature and an even temperature across the emulsion.

## GUIDING AMOUNTS:

- Approximately 6 to 8 % of emulsion versus the weight of the aggregate depending on the aggregate mix and type, which involves 3.6 to 5 % of residual binder in the mix.

## RECOMMENDATIONS:

- Calibrate the dosage devices of the mix manufacturing plant.
- Adapt the dosing of the materials based on the work formula.
- Adjust the dosing in the test section.

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