

ECOEMUL P MBA (C67BPF3 MBA)

DEFINITION:

Modified cationic bituminous emulsion special for manufacturing open-graded half-warm mixes in which the original binder is made of a bitumen modified with polymers. Compliant with the specifications contained in standard EN 13808:2013 for a C67BPF3 MBA type emulsion.

SPECIFICATIONS:

Characteristics	Units	Standard	Min.	Max.
Original emulsion				
Particle polarity	-	EN 1430	Positive	
Breaking value (Forshammer filler)	-	EN 13075-1	70	155
Binder content (per water content)	%	EN 1428	65	69
Oil distillate content	%	EN 1431	-	10
Efflux time (4 mm, 40°C)	s	EN 12846-1	5	70
Settling tendency (7 days)	%	EN 12847	-	5
Residue on sieving (0,5 mm)	%	EN 1429	-	0,10
Water effect on binder adhesion	%	EN 13614	90	-
Residual binder				
Penetration (25 °C)	0,1 mm	EN 1426	-	220
Softening point	°C	EN 1427	39	-
Cohesion (Vialit pendulum)	J/cm²	EN 13588	0.5	-
or cohesion (force-ductility 5°C)	J/cm²	EN 13589/13703	0.5	-
Elastic recovery (25°C)	%	EN 13398	DV	-
Recovered binder				
Penetration (25 °C) (*)	0,1 mm	EN 1426	-	330
Softening point (*)	°C	EN 1427	35	-
Cohesion (Vialit pendulum)	J/cm²	EN 13588	0.5	-

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or cohesion (force-ductility 5°C)	J/cm ²	EN 13589/13703	0.5	-
Elastic recovery (25°C)	%	EN 13398	DV	-
Stabilised binder	EN 13704-2			
Penetration (25 °C)	0,1 mm	EN 1426	-	220
Softening point	°C	EN 1427	39	-
Cohesion (Vialit pendulum)	J/cm ²	EN 13588	0.5	-
or cohesion (force-ductility 5°C)	J/cm ²	EN 13589/13703	0.5	-
Elastic recovery (25°C)	%	EN 13398	DV	-

(*) If penetration is > 330 (0.1 mm), penetration test will be carried out at 15°C and will be declared as DV. In these cases, softening point < 35°C is allowed.

DV = declared value

APPLICATIONS:

- High performance open-graded half-warm bituminous mixtures.

RECOMMENDED WORKING TEMPERATURES:

- Application temperature (°C): 20-60. 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. In this case, it is recommended to heat the emulsion by means that ensure control over the temperature and an even temperature throughout the emulsion, avoiding spot overheating that could damage it.

RECOMMENDED DOSAGE:

- Approximately 5.0 to 7.0 % of emulsion over the weight of the aggregate depending on the aggregate mix and type, which means 3.2 to 4.8 % of residual binder in the mix.

GENERAL RECOMMENDATIONS:

- Calibrate the dosage devices of the mixture manufacturing plant.
- Adapt the dosage of the materials based on the work formula.
- Adjust the dosage in the test section to achieve the optimal percentage of coating and avoid segregations of coarse aggregate in the storing and emulsion runoffs.