

Emasfalt MBA-60 (C60BF3 MBA)

EMULSIONS ■ COLD BITUMINOUS MIXES ■ OPEN-GRADED

DEFINITION:

Medium breaking cationic bituminous emulsion for cold open grade mixes, compliant with the specifications contained in standard UNE EN 13808:2013 for a C60BF3 type emulsion.

SPECIFICATIONS:

Characteristics	Unit	Standard	Min.	Max.
Original Emulsion				
Particle polarity	-	UNE EN 1430	Positive	
Breaking value (Forshammer filler)	-	UNE EN 13075-1	70	155
Binder content (per water content)	%	UNE EN 1428	58	62
Oil distillate content	%	UNE EN 1431	-	5
Efflux time (2mm, 40°C)	s	UNE EN 12846	40	130
Residue on sieving (0.5 mm)	%	UNE EN 1429	-	0.10
Settling tendency (7 days storage)	%	UNE EN-12847	-	5
Water effect on binder adhesion	%	UNE EN 13614	90	-
Binder after distillation (UNE EN 1431)				
Penetration (25 °C; 100 g; 5 s)	0.1mm	UNE EN 1426	-	220
Softening point	°C	UNE EN 1427	35	-
Evaporation waste (UNE EN 13074-1)				
Penetration (25 °C; 100 g; 5 s)	0.1mm	UNE EN 1426	-	330(*)
Softening point	°C	UNE EN 1427	35	-
Stabilizing residue (UNE EN 13074-2)				
Penetration (25 °C; 100 g; 5 s)	0.1mm	UNE EN 1426	-	220
Softening point	°C	UNE EN 1427	35	-

(*) If penetration at 25°C is > 330, penetration will be made at 15°C and the result will be stated. In this case, a softening point of <35°C will be admitted.

APPLICATIONS:

- Cold open grade bituminous mixes for repairs/filling in pot holes in asphalt road surfaces.

GUIDING WORKING TEMPERATURES:

- Application temperature (°C): 30 – 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 not to exceed the limit of 60°C. For this, it is advisable to heat the emulsion by means that ensure control over the temperature and an even temperature across the emulsion, avoiding spot overheating that could deteriorate it.

GUIDING AMOUNTS:

- Approximately 5 to 7% of emulsion versus the weight of the aggregate depending on the aggregate mix and type. 3-4% of residual binder in the mix.

RECOMMENDATIONS:

- Calibrate the dosage devices of the mix manufacturing plant.
- Monitor cleanliness of aggregates.
- Adapt the dosage of the materials based on the work formula.
- Make adjustments in the test section to achieve an optimal coverage percentage and avoid segregations of coarse aggregate in the storing and draining of emulsion.

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