

# Emasfalt MBA-67 BIO (C67BFv3 MBA)

EMULSIONS ■ COLD BITUMINOUS MIXES ■ OPEN-GRADED

## DEFINITION:

Medium breaking cationic bituminous emulsion for cold open grade mixes, formulated with plant-based additives, compliant with the specifications included in UNE EN 13808:2013/1M:2014 for a C67BF3 MBA type emulsion.

## SPECIFICATIONS:

Characteristics	Unit	Standard	Min.	Max.
<b>Original Emulsion</b>				
Particle polarity	-	UNE EN 1430	Positive	
Breaking value (Forshammer filler)	-	UNE EN 13075-1	70	155
Efflux time (2 mm, 40°C)	s	UNE EN 12846	5	70
Binder content (per water content)	%	UNE EN 1428	65	69
Oil distillate content	%	UNE EN 1431	-	10
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	-
<b>Binder after distillation (UNE EN 1431)</b>				
Penetration (25 °C; 100 g; 5 s) or	0.1mm	UNE EN 1426	-	330
Penetration (25 °C; 100 g; 5 s)	0.1mm	UNE EN 1426	90	170
Softening point	°C	UNE EN 1427	-	35
<b>Evaporation residue (UNE EN 13074-1)</b>				
Penetration (25 °C; 100 g; 5 s) or	0.1mm	UNE EN 1426	-	330
Penetration (15 °C; 100 g; 5 s)	0.1mm	UNE EN 1426	140	260
Softening point	°C	UNE EN 1427	-	35
<b>Stabilizing residue (UNE EN13074-2)</b>				
Penetration (25 °C; 100 g; 5 s) or	0.1mm	UNE EN 1426	-	220
Softening point	°C	UNE EN 1427	39	-

## APPLICATIONS:

- Open graded cold bituminous mixes for surface or intermediate layers.
- Repairs/filling in pot holes.

## 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 to not exceed the limit of 60°C. For this, it is advisable for the emulsion to be heated 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 the optimal covering percentage of the mix and avoid:
  - Segregations of coarse aggregate in storage.
  - Emulsion runoffs.

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