

# STYEMUL MBA (C67BPF3 MBA)

EMULSIONS ■ COLD BITUMINOUS MIXES ■ OPEN-GRADED

## DEFINITION:

Medium breaking cationic bituminous emulsion for open grade cold bituminous mixes in which the original binder is made of a bitumen modified with Elaster polymers. It meets the specifications contained in UNE EN 13808:2013/1M:2014 standard for a C67BPF3 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
Binder content per water content	%	UNE EN 1428	65	69
Oil distillate content	%	UNE EN 1431	-	10
Efflux time (2 mm, 40 °C)	s	UNE EN 12846-1	5	70
Settling tendency (7 days storage)	%	UNE EN 12847	-	5
Residue on sieving (0.5 mm)	%	UNE EN 1429	-	0,1
Water effect on binder adhesion	%	UNE EN 13614	90	-
<b>Binder after distillation (UNE EN 1431)</b>				
Penetration (25°C)	0,1mm.	UNE EN 1426	-	220
Softening point	°C	UNE EN 1427	39	-
Cohesion (Vialit pendulum) or	J/cm <sup>2</sup>	UNE EN 13588	0,5	-
Cohesion (Strength-ductility 5°C)	J/cm <sup>2</sup>	UNE EN 13589/13703	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	-	330
Softening point (*)	°C	UNE EN 1427	35	-
Cohesion (Vialit pendulum) or	J/cm <sup>2</sup>	UNE EN 13588	0,5	-
Cohesion (Strength-ductility 5°C)	J/cm <sup>2</sup>	UNE EN 13589/13703	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	-	220
Softening point	°C	UNE EN 1427	39	-
Cohesion (Vialit pendulum) or	J/cm <sup>2</sup>	UNE EN 13588	0,5	-
Cohesion (Strength-ductility 5°C)	J/cm <sup>2</sup>	UNE EN 13589/13703	0,5	-
Elastic recovery (25°C)	%	UNE EN 13398	DV	-

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

DV= Declared value.

## APPLICATIONS:

- High performance open-grade cold bituminous mixes.
- Pot hole repairs.
- Anti-cracking mixes.

## GUIDING WORKING TEMPERATURES:

- Application temperature (°C): 30 - 60. Normally the emulsion will be used at supply temperature, and it 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 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 working formula.
- Make adjustments in the test section to achieve the optimal percentage of coverage and avoid segregations of coarse aggregate in the storing and emulsion runoffs.

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