STYEMUL MBA (C67BPF3 MBA)

DEFINITION:

Medium setting modified cationic bituminous emulsion for open graded cold bituminous mixes in which the original binder is made of a polymer modified bitumen type Elaster. Compliant with the specifications contained in standard EN 13808:2013 for a C67BPF3 type emulsion.

SPECIFICATIONS:

Características	Unidad	Norma UNE	Min.	Máx.
Original emulsion				
Particle polarity	-	EN 1430	Positive	
Breaking value (Forshammer filler)	-	EN 13075-1	70	155
Binder content (per wáter content)	%	EN 1428	65	69
Oil distillate content	%	EN 1431	-	10
Efflux time (4 mm, 40ºC)	s	EN 12846-1	5	70
Settling tendency (7 days)	%	EN 12847	-	5
Residue on sieving (0,5 mm)	%	EN 1429	-	0,1
Water effect on binder adhesion	%	EN 13614	90	-
Residual binder		EN 1431		
Penetration (25 ºC)	0,1 mm	EN 1426	-	220
Softening point	ºC	EN 1427	39	-
Cohesion (Vialit pendulum)	J/cm^2	EN 13588	0,5	-
Cohesion (force-ductility 5ºC)	J/cm^2	EN 13589	0,5	-
Elastic recovery (25ºC)	%	EN 13398	DV	-
Recovered binder		EN 13074-1		
Penetration (25 ºC) (*)	0,1 mm	EN 1426	-	330
Softening point (*)	ºC	EN 1427	35	-

Cohesion (Vialit pendulum)	J/cm²	EN 13588	0,5	-
Cohesion (force-ductility 5ºC)	J/cm²	EN 13589	0,5	
Elastic recovery (25ºC)	%	EN 13398	DV	-
Stabilised binder		EN 13704-2		
Penetration (25 ºC)	0,1 mm	EN 1426	-	220
Softening point	ºC	EN 1427	39	-
Cohesion (Vialit pendulum)	J/cm²	EN 13588	0,5	-
Cohesion (force-ductility 5ºC)	J/cm²	EN 13589	0,5	-
Elastic recovery (25ºC)	%	EN 13398	DV	-

(*) If penetration is > 330 (0,1 mm), the penetration at 15ºC will be determined and the value will be declared as DV. In this case, a softening point < 35ºC is allowed.
DV= declared value

APPLICATIONS:

- → High performance open-graded cold bituminous mixes.
- → Pothole repairs.
- → Anti-cracking mixes.

RECOMMENDED WORKING TEMPERATURES:

- → Application temperature (ºC): 30 – 60. Normally the emulsion will be used at supply temperature, and it will not require to be heated for aggregate coating, but if it is heated, special care must be taken to not exceed the limit of 60ºC. 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 aggregate according to the type of mixture and aggregate. This represents about 3.0 – 4.0 % of residual binder in the mix.

GENERAL 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.
- → Adjust in the test road section the optimal percentage of coating and avoid segregations of coarse aggregate in the storing and emulsion runoffs.