

Styemul Micros (C60BP4 MIC)

EMULSIONS ■ SLURRY SEALS

DEFINITION:

Slow breaking cationic bituminous emulsion for open grade cold bituminous mixes in which the original binder is made of a bitumen modified with Elaster polymers. Compliant with the specifications of article 214 of the General Technical Specifications for Road and Bridge Works (PG-3) and those included under standard UNE 13808:2013/1M:2014 for a type C60BP4 MIC emulsion.

SPECIFICATIONS:

Characteristics	Unit	Standard	Min.	Max.
Original Emulsion				
Particle polarity	-	UNE EN 1430	Positive	
Breaking value (Forshammer filler)	g	UNE EN 13075-1	110	195
Binder content per water content	%	UNE EN 1428	58	62
Efflux time (2 mm, 40 °C) (*)	s	UNE EN 12846	15	70
Settling tendency (7 days storage)	%	UNE EN 12847	-	10
Residue on sieving (0.5 mm)	%	UNE EN 1429	-	0,1
Water effect on binder adhesion	%	UNE EN 13614	90	-
Binder after distillation (UNE EN 1431)				
Penetration (25°C) (**)	0.1mm	UNE EN 1426	-	100
Softening point (**)	°C	UNE EN 1427	50	-
Cohesion (Vialit pendulum)	J/cm ²	UNE EN 13588	0,5	-
Cohesion (Strength-ductility 5°C)	J/cm ²	UNE EN 13589	0,5	-
Elastic recovery (25°C)	%	UNE EN 13398	DV	-
Evaporation residue (UNE EN 13074-1)				
Penetration (25°C) (**)	0.1mm	UNE EN 1426	-	100
Softening point (**)	°C	UNE EN 1427	50	-
Cohesion (Vialit pendulum)	J/cm ²	UNE EN 13588	0,5	-
Cohesion (Strength-ductility 5°C)	J/cm ²	UNE EN 13589	0,5	-
Elastic recovery (25°C)	%	UNE EN 13398	DV	-
Stabilizing residue (UNE EN 13074-2)				
Penetration (25°C)	0.1mm	UNE EN 1426	-	100
Softening point	°C	UNE EN 1427	50	-
Cohesion (Vialit pendulum)	J/cm ²	UNE EN 13588	0,5	-
Cohesion (Strength-ductility 5°C)	J/cm ²	UNE EN 13589	0,5	-
Elastic recovery (25°C)	%	UNE EN 13398	DV	-

(*) Class 4 emulsions can be used for the efflux time (40-130 s).

(**) Class 4 (≤ 150) is admitted in penetration and class 6 (≥ 43) is admitted in the softening point in emulsions manufactured with softer bitumens, to be used in a warm thermal area and/or light traffic.

DV= Value to declare by the supplier.



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APPLICATIONS:

- Cold type Microf-5, Microf-8 o Microf-11 microaggregates.

GUIDING WORKING TEMPERATURES:

- Application temperature (°C): 10 - 40. Normally, the emulsion will be used at the supply temperature, which should always be below 50°C. It is not advisable to heat the emulsion for this application given that a high temperature of the emulsion brings about high consumption of additives in the manufacturing of the grout/cold mix microaggregates.

GUIDING AMOUNTS:

- Approximately 8.5 to 15 % vs aggregate weight depending on type of treatment and aggregate.

RECOMMENDATIONS:

- Given its composition, this kind of emulsion should be transported in full cisterns, or at least filled up to 90% of their capacity, and preferably at ambient temperature, and always at temperatures lower than 50°C, to avoid any partial breakages during transport (see recommendation PG3).
- With high temperatures and/or very reactive aggregates we recommend the use of a type C60BP5 MIC emulsion due to its greater stability.
- If these emulsions are to be stored for more than 7 days, it is recommended that they be homogenized prior to their use. (See recommendation PG3).
- The appropriate equipment must be used for the right dosage of the emulsion and the rest of the components of the grout/ cold mix microaggregates.

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