

EMASFALT MICROS (C60B4 MIC)

EMULSIONS ■ SLURRY SEALS

DEFINITION:

Slow breaking cationic bituminous emulsion specially designed for bituminous grouts and cold mix microaggregates 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 EN 13808:2013/1M: 2014 for a type C60B4 MIC emulsion.

SPECIFICATIONS:

Characteristics	Unit	Standard	Min.	Max.
Original Emulsion				
Particle polarity	-	UNE EN 1430	Positive	
Breaking value (Forshammer filler)	-	UNE EN 13075-1	110	195
Efflux time (2mm, 40°C)	s	UNE EN 12846	15	70
Binder content (per water content)	%	UNE EN 1428	58	62
Residue on sieving (0.5 mm)	%	UNE EN 1429	-	0.10
Settling tendency (7 days storage)	%	UNE EN 12847	-	10
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	-	100
Softening point	°C	UNE EN 1427	43	-
Evaporation residue (UNE EN 13074-1)				
Penetration (25 °C; 100 g; 5 s)	0.1mm	UNE EN 1426	-	100
Softening point	°C	UNE EN 1427	43	-
Stabilizing residue (UNE EN 13074-2)				
Penetration (25 °C; 100 g; 5 s)	0.1mm	UNE EN 1426	-	100
Softening point	°C	UNE EN 1427	43	-

APPLICATIONS:

- Bituminous grouting for low traffic intensity roads (LB4, LB6 or LB8)
- Microf-5 or Microf-8 cold mix microaggregates for T3 and T4 heavy traffic roads and hard shoulders in any summer thermal area.
- The choice of this kind of emulsion will depend on the type of bituminous grout/ cold mix microaggregates and/or the category of traffic.

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 10 to 18 % 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).
- 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 machinery 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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