

Reciemul 90 (C60B5 REC)

EMULSIONS ■ RECYCLED MIXES WITH EMULSION

DEFINITION:

Slow breaking cationic bituminous emulsion with special bitumen for the recycling of milled material (of aged bituminous mixes) in a hot aggregate plant by means of a warm manufacturing technique and milling rates of up to 60%.

It meets the specifications contained in standard UNE EN 13808:2013/1M: 2014 for a C60B5 REC type emulsion.

The properties of the residual binder will be adapted to the characteristics and degree of ageing of the material to be recycled, as well as what percentage to use in the manufacturing of the recycled mix.

SPECIFICATIONS:

Characteristics	Unit	Standard	Min.	Max.
Original Emulsion				
Particle polarity	-	UNE EN 1430	Positive	
Breaking value (Forshammer filler)	-	UNE EN 13075-1	170	-
Efflux time (2 mm, 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	-	220
Softening point	°C	UNE EN 1427	35	-
Evaporation residue (UNE EN 13074-1)				
Penetration (25 °C; 100 g; 5 s)	0.1mm	UNE EN 1426	-	220
Softening point	°C	UNE EN 1427	35	-
Stabilizing residue (UNE EN 13074-2)				
Penetration (25 °C; 100 g; 5 s)	0.1mm	UNE EN 1426	-	150
Softening point	°C	UNE EN 1427	43	-

APPLICATIONS:

- Warm recycling with emulsion, with milling rates of up to 60%.

GUIDING WORKING TEMPERATURES:

- Application temperature (°C): 20-60. Within this range, it is not necessary to heat the emulsion to apply it, but if this is done, special care should be taken not to exceed the limit of 60°C. For this, it is advisable that the emulsion 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:

- These depend on the type of treatment, the characteristics of the pavement milling and aggregates, final mix, the position of the layer on the base surface and the category of traffic.
- As an approximate value, 3 to 6 % of the emulsion on the milled mass plus 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 always at temperatures lower than 60 °C to avoid any partial breakages during transport.
- 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 warm recycled mix.

Review no.: 6

Approved: 01/03/2019

Next review: 01/06/2024



ER-0129/1994



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