STYEMUL MICROS (C60BP4 MIC)

DEFINITION:

Slow breaking cationic bituminous emulsion for open grade cold bituminous mixes in which the original binder is made of a bitumen modified with polymers. Compliant with specifications included in standard EN 13808:2013 for a C60BP4 MIC type emulsion.

SPECIFICATIONS:

Characteristics	Units	Standard	Min.	Max.
Original emulsion				
Particle polarity	-	EN 1430	Positive	
Breaking value (Forshammer filler)	-	EN 13075-1	110	195
Binder content (per water content)	%	EN 1428	58	62
Efflux time (2 mm, 40ºC)	s	EN 12846-1	15	70
Settling tendency (7 days)	%	EN 12847	-	10
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	-	100
Softening point	ºC	EN 1427	50	-
Cohesion (Vialit pendulum)	J/cm^2	EN 13588	0,5	-
or 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	-	100
Softening point	ºC	EN 1427	50	-
Cohesion (Vialit pendulum)	J/cm^2	EN 13588	0,5	-
or cohesion (force-ductility 5ºC)	J/cm^2	En 13589	0,5	.

Elastic recovery (25ºC)	%	EN 13398	DV	-
Stabilised binder		**EN 13704-2**		
Penetration (25 ºC)	0,1 mm	EN 1426	-	100
Softening point	ºC	EN 1427	50	-
Cohesion (Vialit pendulum)	J/cm^2	EN 13588	0,5	-
or cohesion (force-ductility 5ºC)	J/cm^2	En 13589	0,5	.
Elastic recovery (25ºC)	%	EN 13398	DV	-

APPLICATIONS:

- Type Microf-5, Microf-8 or Microf-11 microsurfacing.
- Slurry seals.

RECOMMENDED WORKING TEMPERATURES:

- Application temperature (ºC): 10-40. Normally, the emulsion will be used at the supply temperature, which should always be below 50ºC. It is not recommended 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 slurry seal/microsurfacing.

RECOMMENDED DOSAGE:

- Approximately 8.5 to 15 % over aggregate weight, depending on the type of treatment and aggregate.

GENERAL 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 50ºC, to avoid any partial breakages during transport.

- 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 to homogenized prior to their use.
- The appropriate equipment must be used for the right dosage of the emulsion and the rest of the components of the slurry seal/microsurfacing.