

Modified cationic bituminous emulsions described in the national annex in Spain of the EN 13808 standard

Standard EN 13808			Repsol ADVANCE C60BP2 ADH	Repsol EFI ADVANCE C60BP3 TER	Repsol EFI ADVANCE C60BP4 MIC
CHARACTERISTICS	EN STANDARD	UNIT	TESTS ON ORIGINAL EMULSION		
Particle polarity	1430	-	Positive	Positive	Positive
Breaking value	13075-1	-	<110 class 2	70-155 class 3	110-195 class 4
Binder content (per water content)	1428	%	58-62 class 6	58-62 class 6	58-62 class 6
Binder content recovered by distillation	1431	%	≥ 58 class 6	≥ 58 class 6	≥ 58 class 6
Fluxing agent content recovered by distillation	1431	%	≤ 2,0 class 2	≤ 2,0 class 2	≤ 2,0 class 2
Fluency time (2 mm, 40°C)	12846-1	s	15-70 class 3	15-70 class 3	15-70 class 3
Residue after sieving (0.5 mm sieve)	1429	%	≤ 0,1 class 2	≤ 0,1 class 2	≤ 0,1 class 2
Sedimentation tendency (7 days)	12847	%	≤ 10 class 3	≤ 10 class 3	≤ 10 class 3
Adhesion	13614	%	≥ 90 class 3	≥ 90 class 3	≥ 90 class 3
RECOVERY BY DISTILLATION, ACCORDING TO EN 1431					
Needle penetration at 25°C	1426	0,1 mm	≤ 220 class 5	≤ 50 class 2	≤ 100 class 3
Softening point	1427	°C	≥ 43 class 6	≥ 55 class 3	≥ 50 class 4
Cohesion by pendulum test	13588	J/cm ²	≥ 0,5 class 6	≥ 0,5 class 6	≥ 0,5 class 6
Elastic recovery, 25 °C	13588	%	DV class 1	DV class 1	DV class 1
RECOVERY BY EVAPORATION, ACCORDING TO EN 13074-1					
Needle penetration at 25°C	1426	0,1 mm	≤ 330 class 7	≤ 100 class 3	≤ 100 class 3
Softening point	1427	°C	≥ 35 class 8	≥ 50 class 4	≥ 50 class 4
Cohesion by pendulum test	13588	J/cm ²	≥ 0,5 class 6	≥ 0,5 class 6	≥ 0,5 class 6
Elastic recovery, 25 °C	13588	%	DV class 1	DV class 1	DV class 1
RECOVERY BY EVAPORATION, ACCORDING TO EN 13074-1 AND STABILISATION EN 13074-2					
Needle penetration at 25°C	1426	0,1 mm	≤ 220 class 5	≤ 50 class 2	≤ 100 class 3
Softening point	1427	°C	≥ 43 class 6	≥ 55 class 3	≥ 50 class 4
Cohesion by pendulum test	13588	J/cm ²	≥ 0,5 class 6	≥ 0,5 class 6	≥ 0,5 class 6
Elastic recovery, 25 °C	13588	%	DV class 1	DV class 1	DV class 1

[1] There are emulsions with a class 2 breaking value of <110..

[2] There are emulsions with a class 3 breaking value of 70-155.

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Standard EN 13808			Repsol ADVANCE C65BP2 ² TRG	Repsol ADVANCE C69BP2 ² TRG	Repsol ADVANCE C67BPF3 MBA
CHARACTERISTICS	EN STANDARD	UNIT	TESTS ON ORIGINAL EMULSION		
Particle polarity	1430	-	Positive	Positive	Positive
Breaking value	13075-1	-	<110 class 2	<110 class 2	70-155 class 3
Binder content (per water content)	1428	%	63-67 class 7	67-71 class 9	65-69 class 8
Binder content recovered by distillation	1431	%	≥ 63 class 7	≥ 67 class 9	≥ 65 class 8
Fluxing agent content recovered by distillation	1431	%	≤ 2,0 class 2	≤ 2,0 class 2	≤ 10 class 6
Fluency time [4 mm, 40°C]	12846-1	S	5-70 class 5	5-70 class 5	5-70 class 5
Residue after sieving [0.5 mm sieve]	1429	%	≤ 0,1 class 2	≤ 0,1 class 2	≤ 0,1 class 2
Sedimentation tendency [7 days]	12847	%	≤ 10 class 3	≤ 10 class 3	≤ 5 class 2
Adhesion	13614	%	≥ 90 class 3	≥ 90 class 3	≥ 90 class 3
RECOVERY BY DISTILLATION, ACCORDING TO EN 1431					
Needle penetration at 25°C	1426	0,1 mm	≤ 220 class 5	≤ 220 class 5	≤ 220 class 5
Softening point	1427	°C	≥ 43 class 6	≥ 43 class 6	≥ 39 class 7
Cohesion by pendulum test	13588	J/cm ²	≥ 0,5 class 6	≥ 0,5 class 6	≥ 0,5 class 6
Elastic recovery, 25 °C	13588	%	DV class 1	DV class 1	DV class 1
RECOVERY BY EVAPORATION, ACCORDING TO EN 13074-1					
Needle penetration at 25°C	1426	0,1 mm	≤ 330 class 7	≤ 330 class 7	≤ 330 class 7
Softening point	1427	°C	≥ 35 class 8	≥ 35 class 8	≥ 35 class 8
Cohesion by pendulum test	13588	J/cm ²	≥ 0,5 class 6	≥ 0,5 class 6	≥ 0,5 class 6
Elastic recovery, 25 °C	13588	%	DV class 1	DV class 1	DV class 1
RECOVERY BY EVAPORATION, ACCORDING TO EN 13074-1 AND STABILISATION EN 13074-2					
Needle penetration at 25°C	1426	0,1 mm	≤ 220 class 5	≤ 220 class 5	≤ 220 class 5
Softening point	1427	°C	≥ 43 class 6	≥ 43 class 6	≥ 39 class 7
Cohesion by pendulum test	13588	J/cm ²	≥ 0,5 class 6	≥ 0,5 class 6	≥ 0,5 class 6
Elastic recovery, 25 °C	13588	%	DV class 1	DV class 1	DV class 1

[1] There are emulsions with a class 2 breaking value of <110..

[2] There are emulsions with a class 3 breaking value of 70-155.