## **Bitumen Emulsions**

Specification of Cationic Bitumen Emulsions														
	Quick S	Setting	Rapid-Setting				Medium-Setting				Slow-Setting			
	CQS_1h		CRS_1		CRS_2		CMS_2		CMS_2h		CSS_1		CSS_1h	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Test on emulsions:														
Viscosity, Saybolt Furol at 25°C SFs	20	100	-	_	-	-	_	-	-	-	20	100	20	100
Viscosity, Saybolt Furol at 50°C SFs	-	-	20	100	100	400	50	450	50	450	-	-	_	-
Storage stability test, 24-h, %A	-	1	-	1	-	1	_	1	-	1	_	1	_	1
Demulsibility, 35 mL, 0.8 % dioctyl sodium	-	-	40	-	40	1	_	-	_	_	_	_	-	-
Particle charge test	positive		positive		positive		positive		positive		positive		positive	
Sieve test, %A	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1
Cement mixing test, %	-	N/A	-	_	-	-	-	-	_	-	2	_	_	2
Coating ability and water resistant	ce:													
Coating, dry aggregate	-	-	-	_	-	-	good	-	good	-	-	-	_	-
Coating, after spraying	-	-	ı	_	-	I	fair	-	fair	ı	-	-	1	ı
Coating, wet aggregate	-	-	-	_	-	ı	fair	-	fair	-	_	-	1	-
Coating, after spraying	-	-	-	_	-	-	fair	-	fair	-	-	-	-	-
Distillation:														
Oil distillate, by volume of emulsion, %	-	-	-	3	-	3	_	12	-	12	_	_	-	-
Residue, %	57	-	60	_	65	-	65	-	65	-	57	-	57	-
Tests on residue from distillation	test:													
Penetration, 25°C, 100 g, 5 s	40	90	100	250	100	250	100	250	40	90	100	250	40	90
Ductility, 25°C, 5 cm/min, cm	40	-	40	_	40	_	40	-	40	-	40	-	40	-
Solubility in trichloroethylene, %	97.5	_	97.5	_	97.5	-	97.5	-	97.5	-	97.5	-	97.5	_