COBITCO INC
EMULSIFIED ASPHALT

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PRODUCT SPECIFICATION

CRS-2P
CATIONIC RAPID SETTING EMULSIFIED ASPHALT
POLYMER MODIFIED

CRS-2P shall be an emulsified blend of straight-run vacuum tower bottoms asphalt, solvent refined heavy naphthenic extract, styrene/butadiene copolymers, water, and emulsifiers. The emulsified blend shall contain a minimum of three (3.0) percent copolymer by weight of asphalt cement. The emulsion shall be smooth and homogeneous throughout, pumpable and suitable for application through a distributor truck. The emulsified asphalt shall conform to the following requirements:

	Requirements		Test Method		
	Min	***Max***	AASHTO	ASTM	CDOT
Tests on Emulsion:					
Viscosity, Saybolt Furol, 50°C, s	***80***	***450***	T-59	D244	
Storage stability test, 24-h, %[A]		***1***	T-59	D6930	
Demulsibility, 35ml, 0.8% dioctyl sodium sulfosuccinate, %	***40***		T-59	D6936	
Particle charge test	***positive***		T-59	D244	
Sieve test, %[A]		***0.1***	T-59	D6933	
Distillation[B]:					
Oil distillate, by volume of emulsion, %		***0.5***	T-59	D6997	
Residue, %	***70***		T-59	D6997	CP-L2212*
Tests on Residue from 325°F hot plate evaporation test (Colorado DOT CP-L2212*)[B]:					
Penetration, 25°C, 100g, 5 sec	***60***	***110***	T-49	D5	
Ductility, 25°C, 5 cm/min, cm	***125***		T-51	D113	
Ductility, 4°C, 5 cm/min, cm	***45***		T-51	D113	
Toughness, in-lb	***150***		D5801	CP-L2210*	
Tenacity, in-lb	***110***		D5801	CP-L2210*	
Elastic recovery, 25°C, 20cm, 5m hold/1h recovery, %	***80***		T301	D6084 (B)	CP-L2211*
Softening Point, Ring & Ball, °C	***57***		T-53	D36	
Solubility in trichloroethylene[C], %	***97.5***		T-44	D2042	

A This test requirement on representative samples is waived if successful application of the material has been achieved in the field.

B Distillation to 260°C (T-59 §11 to 15) shall be the reference method for percent distillate and percent residue. Residue by hot plate evaporation at 163°C (CP-L2212 modified to a maximum temperature of 325°F) shall be the reference method to obtain material for tests on residue. Residue from distillation shall not be used for tests on residue due to polymer degradation at 260°C. Colorado DOT Procedure CP-L 2212* modified to a 163°C maximum temperature may be used for acceptance testing of percent residue.

C If the solubility of the residue is less than 97.5%, the base asphalt binder for the emulsion shall be tested. The solubility of the base asphalt binder shall be greater than 99 percent.

* CP-L 2210, CP-L 2211, and CP-L 2212 are Colorado Department of Transportation test procedures.

Specifications are subject to change without notice.

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