



COLBOND N™

Elastomer Modified Bitumen Emulsion

Product Data Sheet 2020/07

DESCRIPTION

COLBOND N™ is a medium viscosity cationic spray grade bitumen emulsion modified with SBR latex and special additives to warrant enhanced bond strength properties with substrate.

USES

COLBOND N™ is used mainly for spraying as a bond coat when using integrated paver/spraying machines.

PROPERTIES

COLBOND N™ has enhanced residual binder properties, while the lower viscosity of the emulsion improves the flow of the binder during application. **COLBOND N™** is specially formulated with the use of no cutter to ensure that there is no solvent entrapment in the overlaid surface, thus reducing the risk of bleeding. **COLBOND N™** has great affinity for various substrates and has excellent bond properties.

SPECIFICATIONS

COLBOND N™ conforms to the following specification:

EMULSION PROPERTIES	REQUIREMENT		TEST METHOD
	Min	Max	
Binder content, % m/m	65	68	ASTM D244
Viscosity @ 50°C, SFs	20	200	ASTM D244
Residue on Sieving, g/100ml	710 µm	-	MB-23
	150 µm	-	
Particle charge	Positive		MB-24
Sedimentation after 60 rotations	Nil		SANS 4001:BT3
RECOVERED BINDER PROPERTIES			
Ring & Ball Softening point, °C	65	75	ASTM D36
Elastic recovery @ 15°C	50	60	MB-4
Penetration @ 25 °C (0.1 mm)	35	55	EN 1426
T _{max} Determined by G*/sin Delta, °C	76	-	PGP2

DIRECTIONS FOR USE

1. Only heat product prior to application. Heating should be gentle to reduce the possibility of deposits forming on the burner flues. Do not heat the product during storage, but circulate for approximately 20-30 minutes every second day.
2. **COLBOND N™** can be applied with a conventional distributor, integrated paver/sprayer or hand sprayer at a binder spray temperature of 65°C and a minimum road surface temperature of 10°C.
3. Typical application rates are 0,4 – 0,6 l/m².
4. To avoid blocked nozzles, load the product via a strainer fitted with a fly screen mesh. If possible, larger nozzles should be fitted to the spray bar to reduce the frequency of blockages.
5. Can be stored for long periods at ambient temperature without risk of polymer thermal degradation. The residue on sieving value will increase with prolonged storage, but should not affect performance of the binder.
6. Clean storage tank and spray bar regularly with solvent to dissolve latex residues.

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