Cationic bituminous emulsion

Emulbit KE-1

Barrel 210kg

Bulk

General description

Rapid setting and low viscosity cationic emulsified asphalt based on road bitumen, water and special emulsifiers. The use of bituminous emulsion KE-1 instead of cutback asphalt or hot road asphalt improves the quality of the executed works and increases the pavement resistance. This is achieved, as the road surface is fully and homogenously covered with a thin layer of asphalt. Also money and time saving is achieved, because no use of heat required during any state of application. It can be used to wet surfaces without anti-stripping agent's addition.

Applications

- Tuck coat.
- Surface treatments.
- Impregnation of core aggregates.

Application method

The applied surface must be clean without oils or any waste materials. KE-1 is sprayed to the desirable surface with the appropriate apparatus, so homogenously suspension of the material occurs to the whole surface. Stirring well before use is advised for complete homogenization. The emulsion is not applied during rain. Applied temperature is 2 ^{o}C - 60 ^{o}C.

Consumption

Consumption depends on the sub-layer and its use: tack coats 0,6 - 0,8 kg/m2 (old surfaces), 0,4 - 0,6 kg/m2 (new surfaces). Surface treatments and core aggregates impregnation 1,0 - 1,2 kg/m2. Concrete sub-layer 0,8 - 1,0 kg/m2.

Packaging - Storage

Bulk in tank trucks and in 200 lt (210 kgs) barrels.
In frost (temperature < 2 ^{o}C) and high temperatures (> 60 ^{o}C) protection is needed to avoid thrombosis of the emulsion. In case of storing the emulsion in tanks for a long period, the tanks should be thermo-insulated and must have stirring or re-circulation system. In case of packaging the emulsion in barrels the maximum storage period is (1) one year in covered place.

Precautions

Avoid skin and eye contact. In case of contact use plenty of water and seek medical advice. Appropriate means of self-protection must be used. Non toxic. It must not be disposed to surface and still water.

Technical Specifications		
Tests	**Test Method**	**Limits**
Test on emulsion		
Viscosity Saybolt Furol, 25 ^{o}C, sec	Model technical specification Ministry of Public Works A203	20 - 100
Distillation residue, %, min		55
Settlement, % (5 days), max		3
Sieve test, %, max		0,10
Coating ability		Good
pH		95
Test on residue		
Penetration 25 ^{o}C, 100 gr, 5 sec, 0,1 min	Model technical specification Ministry of Public Works A203	80 - 320
Solubility in trichloroethylene, %, min		97,5
Ash, %, max		2
Ductility, 25 ^{o}C, cm, min		40