CHEMORAN

THE CHEMICAL DIVISION OF COLAS

AFM

Product Information

AFM is an amphoteric emulsifier used in the manufacture of bitumen emulsions with a neutral pH, but could be also anionic or cationic.

This amphoteric emulsifier can be used to manufacture emulsions used for microsurfacing, tack-coating, prime-coating and in cold mixes such as grave emulsion, and emulsions for soil stabilization.

Storage & Handling

AFM must be protected from frost. At temperatures below -5°C AFM may freeze and may rupture the IBC. The product itself will be unharmed.

If this occurs AFM should be heated until it melts and agitated to insure a homogeneous mixture before use. AFM is not compatible with other Chemoran emulsifiers.

Packing

Drum of 180kg / IBC of 1000kg

Temp.	Density	Viscosity
°C	(g/cm³)	(mPa.s)
15	-	265
20	1.04	400
25	1.038	490
30	1.035	580

Formulation Example (refer to CST Technical Note N°157)

Application	Bitumen Type & Dosage	AFM Dosage	Emulsion pH
In place retreatment	60% paraffinic	10-25 kg/t	±7
Grave emulsion	60% paraffinic	10-25 kg/t	±7
Tack coat	60% paraffinic	5-10 kg/t	±7
Prime coat	60% fluxed bitumen	10-20 kg/t (more if highly fluxed)	±7

The use of hydrochloric acid or caustic soda is possible to obtain cationic or anionic emulsions.

Table of Parameters

Characteristics	Methods	Specification	Typical Values
Physical state at 20°C	Visual test	Liquid	-
Activity (%)	-	35 (AFM in aqueous phase)	-
Alkalinity index (mgHCl/g)	MOPCST PC-006	Neutral	-
Flash point, closed cup (°C)	EN 22719	>100	-
Cloud point	CHEM 003	-	Freezes < -5°C