

UNICHEM PAB – C 60 SS

SLOW SETTING CATIONIC BITUMEN EMULSION

UCA-WP-11-0722

DESCRIPTION

UNICHEM PAB – C 60 SS is an cationic type asphaltic emulsion & further characterized by their ability to remain stable on storage, although produced with equipment that generates a wide range of shearing forces.

UNICHEM PAB – C 60 SS have a positive charge & hence a direct & very rapid reaction between the emulsion & an aggregate or pavement is possible.

It is cold liquid applied water proofing bitumen emulsion. The product is made using a process in which special grade of bitumen, emulsifier & other additive have been gone through a high share rate colloid mill & the properties of bitumen have direct effect on bitumen emulsion.

The slow - setting emulsions are grades of emulsion that are sufficiently stable to allow mixing with fine or dusty aggregate mineral particles and further processing before setting.

USES

- ❖ The main application areas of emulsion are surface dressing, tack coat, prime coat, slurry seal, & cold mixing.
- ❖ Can be used below or above ground level for application in concrete, masonry, metal & asphalt surfaces.

ADVANTAGES

- Solvent free, cold applies, no heating required
- Active adhesion, binder for dust particles
- Simple & Easy to use, brush applied
- Economical, non-hazardous, non-flammable

- Little or no hydrocarbon emission

- Low viscosity compared to hot applied bitumen, due to this the emulsion has good penetration & spreading capacity.

- Chemically reacts with Portland cement constituents forming a water – insoluble salt & thus possess valuable water-resistant characteristics.

TYPICAL PROPERTIES

APPEARANCE	DARK BROWN LIQUID
SPECIFIC GRAVITY	0.99 - 1.01 @ 25 °C.
PARTICLE CHARGE	POSITIVE
VISCOSITY @25°C	15 - 70
RESIDUE %	57 – 60 (DISTILLATION)
SOLUBILITY IN TRICHLOROETHYLENE%	97 - 98
COVERAGE	2.5- 3.5 m ² /Ltr for two coats will give 200 – 300 microns DFT.* *Coverage rates vary on the Porosity and texture of the concrete to be treated
PACKAGING	20, 200 LITRE. Other packaging sizes are available upon request

STANDARDS

UNICHEM PAB C 60 SS complies with ASTM D 977

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INSTRUCTIONS FOR USE

SURFACE PREPARATION

The surface must be clean & free of oil, grease or other foreign matters.

Free the surface of laitance, loose dust particles, oil, grease and other dirt. Oil or grease can be removed by using a strong industrial detergent or organic degreaser. Wire brush and broom the surface before application. In some cases, the existing concrete may have to be chipped to get to the original, sound substrate.

APPLICATION

UNICHEM PAB – C 60 SS should be stirred well before application. It can be applied by brush, roller or spray equipment. It should be allowed to dry naturally.

Cationic emulsions are preferred for use with negatively charged siliceous aggregates, such as quartz, granite, sandstone & river gravel. In general, cationic emulsions can be applied with a wider range of aggregates, will tolerate greater quantities of moisture, & will break at low ambient temperatures.

While general guidelines can be given for selecting emulsions, laboratory testing is strongly recommended.

CLEANING

UNICHEM PAB – C 60 SS can be removed from equipment & tools with water & any suitable solvent like gasoline or kerosene.

STORAGE & SHELF LIFE

UNICHEM PAB – C 60 SS should be protected from extremes of temperature. Store in dry & shaded area in original packaging. The container should be kept covered during working in order to prevent evaporation. Minimum 6 months if stored unopened in the original packaging

SAFETY PRECAUTIONS

Personal should use & wear protective mask, gloves, goggles during application.

Care must be taken to ensure that there is adequate ventilation. Fires & naked flames are kept away from storage & application area.

LIMITATION OF LIABILITY

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.

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