

Fog Seal Asphalt Emulsion (ASPPC 203)

DESCRIPTION

ASPPC 203 is a slow setting or quick setting cationic asphalt emulsion suitable for fog seal application.

Fog Seal: is defined as a very light application of asphalt emulsion on a lightly weathered and/or worn asphalt pavement.

FEATURES

- Non-poisonous.
- High adhesion with the surface.
- Water base, so, it is not flammable.
- Needs no additives, ready to use.
- Can be applied easily and rapidly
- Energy saving as it is used without heating.
- Environmental friendly, not contains any petroleum solvents.
- Can be applied during all weather conditions except in rainy days.
- Provides a thin asphalt film to penetrate and fill surface voids and minute cracks.
- Dries after spraying within a short period of time depending upon climate and road conditions as well as its composition and rate of spraying.

RECOMMENDED USES

- Sealing minor surface voids in new asphalt construction.
- Renewing an old asphalt pavement.
- Patch potholes, repaired damaged area, and cracks in the existing pavement.

TECHNICAL DATA

Physical Properties	Test Methods	Tech. Data
Viscosity Saybolt Furol at 25°C, sec.	ASTMD 88	50 max
Sieve test, %wt	ASTMD 6933	0.1 max
Particle Charge test	ASTM D244	Positive
pH	ASTM E70	2.0 – 4.0
Distillate test:		
Oil distillate, volume of emulsion, %	ASTMD 6997	3 max
Residue after distillation, % mass		25 min
Water content, %wt + oil distillate, %wt	Calculation	75 max
Tests on residue from distillation:		
Penetration, 25°C, 100 g, 5 sec, dmm	ASTMD 5	120 max
Solubility in trichloroethylene, % mass	ASTMD2042	97.5 min

COLOUR

- **ASPPC 203** gives a dark brown color immediately after being sprayed.
- After breaking, color is changed into black.
- Its darkness increases with the final setting time depending on the weather conditions.

COVERAGE

- Normally 0.15 - 0.20 kg/m² of the emulsion.
- Exact quantities are determined by the surface texture of the pavement on which the fog seal is sprayed.

APPLICATION INSTRUCTIONS AND SEQUENCE

- Clean surface to be sprayed and remove any loose material.
- Spray **ASPPC 203** at a specified rate (0.15 to 0.2 kg/m²) using an asphalt emulsion distributor and/or air compressor. Using any other spraying tools may not give the perfect performance.
- Spraying must be done uniformly and pressurized.
- Allow the surface to dry completely (about 2 hrs depending on the climatic conditions).
- Open the road for traffic.
- In all cases it is normal to have a crackling sound between the freshly prepared surface and the tires; this is referred to the perfect adhesion character of the pure bitumen. This crackling sound will disappear after 48 hr (depending on the climatic conditions and the application rate).
- All of the above sequences are recommended to be repeated every 6 months.

HEALTH & SAFETY

- **ASPPC 203** is non-toxic.
- Workers should wear protective masks, gloves and goggles during application.
- No special precautions are needed since it is water based non-flammable material.
- **ASPPC 203** must not be swallowing.
- If swallowed, CALL PHYSICIAN IMMEDIATELY.
- In case of eye contact, open eyelids wide and flush immediately with plenty of water for at least 15 minutes. Get medical advice.

STORAGE

- **ASPPC 203** is designed for immediate use, in no cases don't store **ASPPC 203** more than one week in the normal store conditions.
- Store **ASPPC 203** in a dry and shaded area in original packing.
- Store **ASPPC 203** in clean tanks or drums free from any chemical products or impurities, for about one week.
- Gently stir (recycle) **ASPPC 203** every day for at least two hours using a pump between two storage tanks or between the storage tank and the distributor and vice versa.

PRECAUTION

- When **ASPPC 203** is in contact with air, an asphaltic skin will be formed on the surface, and this skin must be removed before reusing the product.
- Working temperature of **ASPPC 203** is the ambient temperature; in all cases the working temperature not exceeding 50°C.
- Don't use **ASPPC 203** if the temperature during application is less than 5°C, and when there is no threat of rain.

PACKING

- **ASPPC 203** is carried to site by tank trucks and/or 200 liter steel drums.

DISCLAIMER

This Product Data Sheet summarizes our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. ASPPC co. does not accept any liability either directly or indirectly for any losses suffered in connection with the use or storage or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.