

Final Products Datasheet  (LMF-09-04)	  <b>Alexandria Specialty Petroleum Products Company (ASPPC)</b>	Version Number	1
		Release Date	01/12/2022
		Revision Number	0
		Revision Date	01/12/2022
		The chemical Laboratories and Research General Department	

## Cationic Medium Setting Asphalt Emulsion (ASPPC 205)

### DESCRIPTION

ASPPC 205 is a medium setting cold applied fluid asphalt emulsion (CMS-2), complies with the international standard specification ASTM D2397.

### FEATURES

- Ideal for cold mix.
- Excellent adhesion on all kinds of gravel.
- Can be applied easily and rapidly.
- Energy saving as it is used without heating, environmentally friendly.
- Have sufficient fluidity to facilitate mixing and coating the project aggregate.
- Have good attraction or wetting power for the aggregate surface.
- High enough viscosity or thixotropic characteristics to permit handling and placement without flowing off the aggregate.
- Provides resistance to wash off from rain within one hour after placement.

### RECOMMENDED USES

**ASPPC 205 typically used for cold mix which used in the maintenance of pavements.**

### PRECAUTION FOR SUCCESSFUL PROJECTS

- As with any project, correct design, normal good construction procedures and proper emulsion handling will give the best results.
- ASPPC 205 was formulated for local aggregates, climate, job conditions and performance requirements to make sure your project will be successful.
- Using of high technology emulsion manufacturing improves the quality of the finished application.
- Permits slow traffic within one to two hours after compaction, and normal traffic within 48 hours under average curing conditions of temperature and humidity

### SPECIFICATIONS

Physical Properties	Test Method	Specifications
Viscosity Saybolt Furol at 50°C, sec.	ASTMD 88	50-450
Storage stability, 24 hr, % <sup>A</sup>	ASTMD 6930	1 max
Sieve test, %wt <sup>A</sup>	ASTMD 6933	0.1 max
Particle Charge test	ASTM D244	Positive
pH	ASTM E70	2.0 – 4.0
Coating ability and water resistance: ❖ Coating, dry aggregate ❖ Coating, after spraying ❖ Coating, wet aggregate ❖ Coating, after spraying	ASTMD 244	Good Fair Fair Fair
Distillation test: Oil distillate, volume of emulsion, %	ASTMD 6997	12 max
Residue by distillation, %		65 min
Tests on residue from distillation:		
Penetration, dmm,	ASTMD 5	100-250
Ductility, 25°C, cm	ASTM D113	40 min
Solubility in trichloroethylene, % mass	ASTMD2042	97.5 min

<sup>A</sup> This test requirement on representative sample is waived if successful application of the material has been achieved in the field.

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#### COVERAGE

- Percent by weight of asphalt emulsion, based on weight of graded mineral aggregate in the designed cold mix. normally 6-8 % wt of the aggregate.

#### COLOUR

- **ASPPC 205** gives a dark brown color during mixing.
- After breaking color is changed into black.

#### HEALTH & SAFETY

- **ASPPC 205** 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 205** 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:

- Store **ASPPC 205** in a dry and shaded area in original packing.
- Store **ASPPC 205** in clean tanks or drums free from any chemical products or impurities, avoiding air contacts, for about four months.
- Gently stir (recycle) **ASPPC 205** once weekly for at least two hours using a pump between two storage tanks, or between the storage tank and the distributor and vice versa.

#### PRECAUTIONS:

- When **ASPPC 205** is in contact with air, an asphaltic skin will be formed on the surface, and this skin must be removed before reusing the product.
- **ASPPC 205** after complete drying not affected by water (re-emulsification not occur).
- Working temperature of **ASPPC 205** is the ambient temperature; in all cases the working temperature not exceeding 50°C.
- Don't use **ASPPC 205** if the temperature during application is less than 5°C.

#### PACKING

- **ASPPC 205** is supplied in bulk 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.