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## Technical Information

### FARMIN ST-7

(Cationic Emulsifier for Rapid Setting Asphalt Emulsion)

#### 【 Introduction 】

**FARMIN ST-7** is a polyamine-type asphalt emulsifier developed specifically to make Cationic Rapid Setting emulsion (CRS).

**FARMIN ST-7** promotes good viscosity to the asphalt emulsion, excellent coating, good adhesion in chip seal application. **FARMIN ST-7** emulsion shows better viscosity than ASFIER 100.

#### 【 Application 】

- The emulsion manufactured with this emulsifier is mainly used for: Chip seal and Sand seal.
- The recommended dosage to prepare emulsion using this emulsifier is 0.20 to 0.35%.

#### 【 General Properties 】

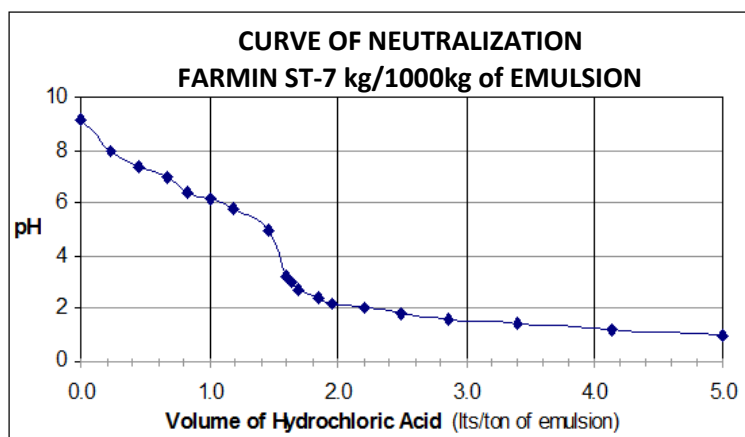
Appearance	: Yellowish solid
Odor	: Typical amine
Density (g/cm <sup>3</sup> ) at 25°C	: 0.85
Total Amine Value	: 310 – 330 mgKOH/g
Moisture	: Max. 1
Gardner Color	: Max. 5

#### 【 Suggested Uses 】

A recommended formulation for CRS emulsion is described in the following table

RECOMMENDED FORMULATION (based in 1000 kg of emulsion)	
ASPHALT	630 – 650 Kg
WATER	350 – 370 Kg
FARMIN ST-7	2 Kg
HYDROCHLROC ACID	To adjust pH 2.0

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This chart shows the approximate quantity of hydrochloric acid necessary to neutralize the previous formulation using **FARMIN ST-7**.

### 【Package】

Metallic drums tight head at 165 kg net.

### 【Storage & Safety Frist Aid】 .

**Storage.** : Keep container closed in a well air zones. Keep away from sparks, open flames, strong oxidizing agents or any ignition sources.

Eyes	Flush eyes immediately with aqueous boric acid solution (0.5-1.0%) lifting upper and lower lids occasionally. After that, wash with large amounts of water for at least 15 minutes. Obtain medical attention promptly
Skin	Remove all contaminated clothes and wash the affected areas with aqueous acetic acid solution (3%). After that, wash with plenty water and soap for at least 15 minutes. If necessary obtain medical attention.
Inhalation	Remove victim to fresh air and keep warm. Give oxygen or artificial respiration If necessary. Obtain medical attention promptly.
Swallowing	If victim is conscious give at least two glasses of water or a lightly acidified water with vinegar to neutralize. “Never give something to drink to an unconscious person”. Do not induce vomiting, this is a caustic and corrosive compound. Obtain medical attention promptly.