

TAKEMOTO OIL & FAT CO., LTD.

“CHUPOL”

Air Entraining Agent

CHUPOL AE-200

DESCRIPTION

CHUPOL AE-200 is an aqueous solution of organic materials to produce air entrained concrete (AE concrete). **CHUPOL AE-200** is compatible with normal water reducing agents and high range water reducing agents, including polycarboxylate type superplasticizers.

APPLICATIONS

- # Ready-mix concrete
- # Pre-cast concrete
- # Concrete block
- # Mass concrete
- # Concrete exposed to cyclic freezing and thawing

ADVANTAGES

CHUPOL AE-200 generates a stable air void system with suitable bubble size in concrete.

CHUPOL AE-200 can increase the resisting ability to damage caused by repeated freezing and thawing condition.

CHUPOL AE-200 improves workability of concrete by the ball bearing effect of discrete micro-air bubbles in the concrete. This action is effective to reduce the amount of mixing water, as the result, bleeding and segregation of concrete are minimized.

Use of **CHUPOL AE-200** increases the durability of concrete in severely exposed environments.

DOSAGE

CHUPOL AE-200 has a recommended dosage range of 0.0005~0.002% by weight of cementitious materials to increase 1% of air content. But the dosage rate will vary according to concrete materials, especially fly ash, ambient conditions and the specific requirements of concrete.

MIXING

CHUPOL AE-200 can be added to mixing water at plant mixer or mixing truck.

CHARACTERISTICS

- * Appearance : Yellow color liquid
- * Active content : approximately 23%
- * Specific gravity : approximately 1.05 (at 20°C)
- * Cl⁻ ion content : Nil
- * Solubility : Water soluble

STORAGE

CHUPOL AE-200 should be stored at temperatures above 5°C. If frozen, its properties can be recovered after thawing and agitating thoroughly.

SHELF LIFE

Shelf life of **CHUPOL AE-200** is about one year.

PACKAGING

190kg of drums

CAUTION

When **CHUPOL AE-200** gets into eyes, wash it off with clean water immediately and consult a doctor if necessary.

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TECHNICAL DATA

CONCRETE TEST

(1) MATERIALS

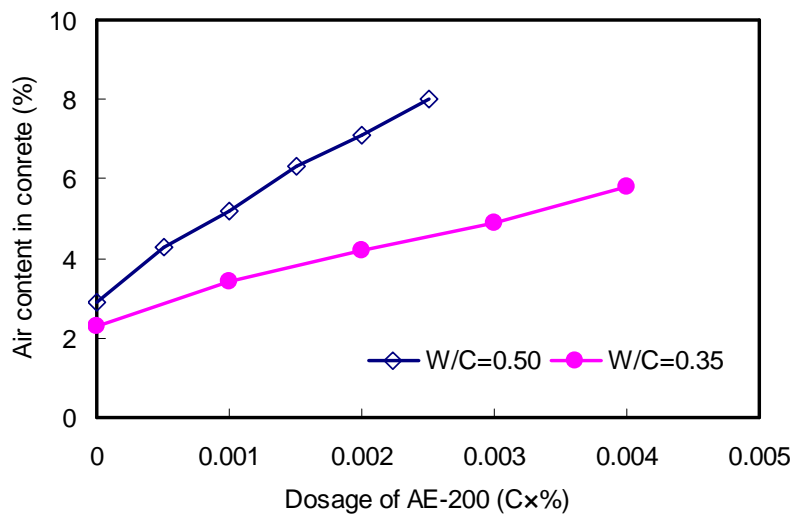
Admixture : CHUPOLAE-200

(2) MIX PROPORTIONS

Concrete Temperature = 20°C

| No. | W/C | s/a (%) | Unit weight (kg/m ³) | | AE-200 C×% |
|-------|------|---------|----------------------------------|-----|---------------|
| | | | W | C | |
| 1 - 5 | 0.50 | 44.9 | 158 | 316 | 0.0005-0.0025 |
| 6 - 9 | 0.35 | 41.3 | 158 | 451 | 0.001-0.004 |

(3) RESULTS



The information and technical data in this brochure are based on TAKEMOTO's knowledge and experience. TAKEMOTO assumes no liability for these information and technical data.

2-5 Minato-Machi, Gamagori-City, Aichi-Pref., Japan
TEL:+81-533-68-2118 FAX:+81-533-68-1339