

CHUPOL M301

Variation Reducing Agent of Concrete Fluidity

Description

CHUPOL M301 is a variation reducing agent of concrete fluidity for PCE type water reducing admixtures. In general, fluidity of concrete is varied due to the amount of fine particles in aggregates. Variation in fluidity of concrete can be reduced by adding PCE type admixtures containing CHUPOL M301, if the amount of fine particles in aggregates varies. CHUPOL M301 makes it easy to control concrete quality and contributes to improvement of concrete quality.

Applications

- Ready-mix concrete
 - Precast / Prestressed concrete
 - Self-consolidating concrete (SCC)
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Advantages

CHUPOL M301 provides the following properties :

- Reduces variation in fluidity of concrete each batch
 - Provides high fluidity to concrete containing large amount of fine particles
 - Makes it easy to control concrete quality
 - Dissolves in PCE type admixtures
 - Free of chloride ion
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Dosage

A recommended dosage range of CHUPOL M301 is between 2 and 20% (S.C. 60%) on PCE type admixtures (S.C. 20%). The dosage rate will vary according to concrete materials, ambient conditions and the specific requirements of concrete.

Characteristic

- Appearance : Light yellowish liquid
 - Solid content : Approx. 60%
 - Specific gravity : Approx. 1.07
 - Chloride content : Nil
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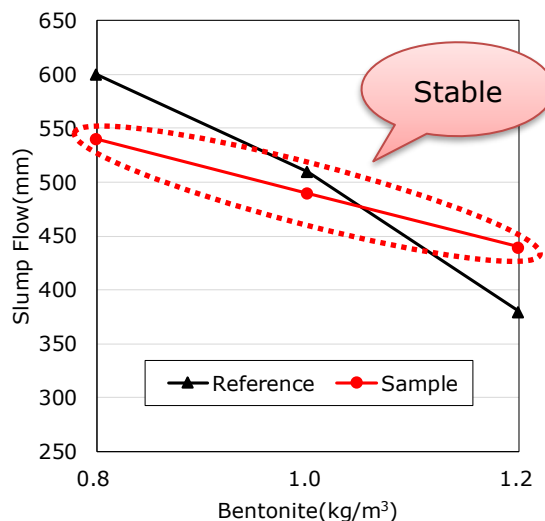
Performance Data

Reference : PCE type admixture **Polymer A** (S.C. 20%)

Sample : Mixture of **Polymer A** and CHUPOL M301

Polymer A (S.C. 20%) / CHUPOL M301 (S.C. 60%) / Water = 75 / 8 / 17

Admixture	W/C (%)	Dosage (C x %)	Bentonite (kg/m ³)	Slump Flow (mm)
Reference	48.5	1.20	0.8	600
			1.0	510
			1.2	380
Sample	48.5	1.20	0.8	540
			1.0	490
			1.2	440



In general, concrete containing bentonite has lower fluidity than concrete without bentonite.

So, variability of the amount of bentonite brings unwanted variation in fluidity of concrete.

Considering these condition, this experiment was carried out with varying the amount of bentonite.

Storage

CHUPOL M301 should be stored in the range of 5 to 40 °C. Although freezing does not degrade the performance of CHUPOL M301, precautions should be taken to protect CHUPOL M301 from freezing. If CHUPOL M301 is frozen, please thaw and mix thoroughly with mechanical agitation.

Shelf Life

Shelf life when CHUPOL M301 is stored in unopened packaging is 18 months. Please contact TAKEMOTO regarding suitability for use and dosage recommendations if the shelf life of CHUPOL M301 has been exceeded.

Packaging

CHUPOL M301 is supplied in 200kg drums or 1,000kg totes.

Related Documents

Safety Data Sheet

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