

CHUPOL VM-2

Concrete Viscosity Modifying Agent

Description

CHUPOL VM-2 is a viscosity modifying agent for all kinds of concrete and mortar. By adding CHUPOL VM-2 to concrete, stickiness of concrete can be reduced and pumpability of concrete can be improved. CHUPOL VM-2 is for use with water reducing admixtures.

Applications

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

CHUPOL VM-2 provides the following properties :

- Decrease stickiness of fresh concrete, mortar.
 - Improve pumpability.
 - No influence on compressive strength
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Dosage

A recommended dosage range of CHUPOL VM-2 is between 0.1 and 3% on water reducing admixtures. The dosage rate will vary according to materials, ambient conditions and the specific requirements.

Compatibility

CHUPOL VM-2 is soluble in most water reducing admixtures.

Characteristic

- Appearance : Brownish liquid
 - Solid content : Approx. 40%
 - Specific gravity : Approx. 1.08
 - Chloride content : Nil
 - Viscosity : Approx. 500mPa.s(20°C)
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Performance Data

Admixture : Reference : PCE (S.C. 20%)

Sample : Mixture of PCE and CHUPOL VM-2

(Ratio PCE / CHUPOL VM-2 : 98 / 2)

W/C	Unit weight (kg/m ³)			
	Water	Cement (OPC)	Fine Agg.	Course Agg.
0.60	180	300	861	986

(Target Slump 18cm Target air content 3.0% Concrete Temp. 20 °C)

Admixture	Dosage (C x %)	Fresh Concrete				Hardened Concrete	
		Slump (cm)	Air Content (%)	O Funnel Flow Time* (sec.)	Pumping pressure (20m ³ /h) (MPa)	Compressive Strength (MPa)	
						7 days	28 days
Reference	0.70	18.0	2.7	3.4	8.6	21.8	30.2
Sample	0.70	18.5	2.8	2.9	7.3	21.2	30.4

* Test method for flowability of self-compacting concrete(Funnel Method) (JSCE-F 512-2018)
STANDARDS SPECIFICATIONS FOR CONCRETE STRUCTURES-2018,
- TEST METHODS AND SPECIFICATIONS - JSCE STANDARDS, Japan Society of Civil Engineers

Storage

CHUPOL VM-2 should be stored at 5 to 40 °C. Although freezing does not harm the performance of CHUPOL VM-2, precautions should be taken to protect it from freezing. If product is frozen, thaw and reconstitute with mechanical agitation. Do not use pressurized air for agitation.

Shelf Life

CHUPOL VM-2 has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact TAKEMOTO regarding suitability for use and dosage recommendations if the shelf life of CHUPOL VM-2 has been exceeded.

Packaging

CHUPOL VM-2 is supplied in 200kg drums or 1,000kg IBCs.

Related Documents

Safety Data Sheet

TAKEMOTO OIL & FAT CO.,LTD.

2-5 Minato-machi, Gamagori, Aichi 443-8611 JAPAN

Phone : +81-533-68-2111 (main number)

<https://www.takemoto.co.jp/>

