

CHUPOL JS-1

Shrinkage-Reducing Admixture

Description

CHUPOL JS-1 is a liquid type dry shrinkage-reducing admixture for concrete, mortar and paste. CHUPOL JS-1 dramatically reduces drying shrinkage and the potential for subsequent cracking and curling.

Applications

- Ready-mixed concrete
 - Precast concrete
 - High-strength or Ultra-high-strength concrete
 - Self-consolidating concrete (SCC)
 - Mortar and Paste
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Advantages

- Reduces both of drying shrinkage and autogenous shrinkage
 - Reduces 5 to 50% of shrinkage at a dosage of 2 to 35 kg/m³
 - Improves aesthetics, watertightness and durability in constructions
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Dosage

CHUPOL JS-1 is recommended for use at a dosage of 0.5 to 10% by weight of cementitious materials. The dosage of HIBDAN will be dependent on the desired drying shrinkage and reduction in shrinkage required. Therefore, it is strongly recommended that drying shrinkage testing be performed to determine the optimum dosage for each application and each set of materials.

Mixing

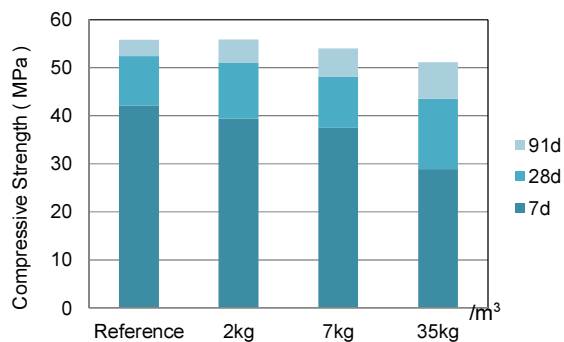
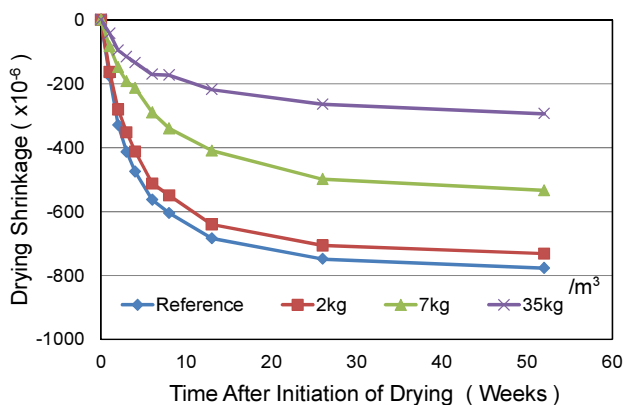
CHUPOL JS-1 can be added to mixing water at plant mixer or mixing truck. A water adjustment must be made to allow for the CHUPOL JS-1 in the mix. The water in the mix should be reduced by as much as the weight added through the addition of CHUPOL JS-1.

Characteristic

- Appearance : Light yellowish liquid
- Water content : 0 to 1.0%
- Specific gravity : Approx. 1.02
- Chloride content : Nil
- Solubility : Water soluble

Performance Data

W/C	S/a	Target Slump (cm)	Target Air (%)	Unit Weight (kg/m ³)				
				Water	OPC	Fine Agg.	Coarse Agg.	SP
0.47	0.46	18	4.5	165	350	808	981	2.62



Effect

If CHUPOL JS-1 is substituted in the mix with equal amount of water reduced, there is little or no effect on the slump. The initial setting time is typically retarded by one to two hours depending on dosage and temperature. Compressive strength may be slightly less than normal depending on dosage.

Storage

CHUPOL JS-1 should be stored at 5 to 40 °C. Although freezing does not harm the performance of CHUPOL JS-1, 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 JS-1 has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of CHUPOL JS-1 has been exceeded.

Packaging

CHUPOL JS-1 is supplied in 180 kg drums.

Related Documents

Safety Data Sheet

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