

ZWL-II (300) SUPERPLASTICIZER

(low chloride, low Na₂SO₄)

Applications

ZWL-II (300) superplasticizer is used in concrete in industrial and civil buildings, hydraulic engineering, transport system, port engineering, and municipal engineering.

ZWL-II (300) superplasticizer is used in ready mix plants, job site plants and concrete pavers, for normal weight and light concrete, in precast and prestressed concrete plants.

ZWL-II (300) superplasticizer is especially for concrete with 28d compressive strength less than 80MPa.

ZWL-II (300) superplasticizer can be used in pumping self-compacting concrete, self-leveling grouting materials.

ZWL-II (300) superplasticizer is suit for Concrete with the requirements of high early strength, low permeability.

ZWL-II (300) superplasticizer can be used in concrete curing either in steam or in air.

Properties

(1) A kind of aromatic sulfonated polymer, non-toxic, odorless, non-flammable, and free steel-corrosion effect.

(2) Excellent water-reducing ability. ZWL-II (300) superplasticizer can significantly reduce 14% ~28% mixing water in concrete.

(3) Enhance physical and mechanical properties of concrete.

(4) Improve workability, reduce cement content.

(5) Excellent compatibility with Portland cement.

Dosage

ZWL-II (300) superplasticizer is supplied as brown powder or aqueous brownish-black liquid. For powder ZWL-II (300) superplasticizer, the dosage for normal strength and high strength concrete is typically 0.3%~0.8% and 0.8%~1.8% respectively, the recommended dosage for GB8076 standard test is 0.75%. For liquid ZWL-II (300) superplasticizer, the amount is calculated according to recommended solid dosage and its solid content.

The amount of ZWL-II (300) superplasticizer used in concrete will be slightly adjusted depending upon job requirements, such as concrete strength, variations in cement, aggregate and other job site conditions. Experiments for appropriate dosage must be carried out when changing concrete mix proportion or materials.

Usage

Liquid ZWL-II (300) superplasticizer is ready-to-use as received.

Powder ZWL-II (300) superplasticizer can be added in concrete directly with longer mixing time, or prepared into solution with required concentration.

Experiment must be done when ZWL-II (300) superplasticizer is used together with other admixtures.

Packaging, transport and storage

(1) Powder ZWL-II (300) superplasticizer is available in 25kg or 50kg film-lined bags. Liquid ZWL-II (300) superplasticizer is available in sealed plastic or iron drums. Other special package can also be available according to prior consultation.

(2) Special measures should be taken to ensure entire package. Keep waterproof during transportation.

(3) Dry and well ventilated warehouse is needed for storage. Quality guarantee of ZWL-II (300) superplasticizer is one year under normal conditions for powder, and half a year for liquid. If storage has surpassed the time, test must be done to confirm the validity.

Health and safety

(1) Once splashed into eyes or skin, wash immediately with plenty of water and seek medical treatment.

(2) Inedible. When eating by mistake, drink sufficient water to urge to vomiting, and then go to hospital.

(3) No littering. Caution should be taken to protect environment.

Customer service

Data in this manual is only for reference. Technical data about dosage and mix proportion is available if necessary. Professional services in site are also available. More information needed, please direct all inquiries to company.