Chem Coats (Pvt) Ltd.

ChemPlast 200 N

Normal set, water reducing, plasticising admixture

DESCRIPTION

ChemPlast 200 N is chloride-free water reducing, plasticising, admixture based on proprietary blended lignosulphonates. When introduced to the mix through the mixing water ChemPlast 200 N disperses the fine cement particles throughout the concrete mix, enabling the water content of the concrete to perform more effectively and improves the consistency of the concrete.

USES

- Provide a cost effective means of reducing concrete permeability.
- To improve workability of fresh concrete.
- For use in applications where normal setting characteristics are required.

BENEFITS

- Provides superior off shutter finishes and colour uniformity.
- Allow s for specified strength grades to be met at reduced cement content.
- Increases workability, minimizing the risk of segregation and bleeding.
- Water reduction significantly improves compressive strengths at all ages.
- Enhances durability through the production of low permeability concrete.
- Chloride-free, safe for use in reinforced concrete.

STANDARDS COMPLIANCE

ChemPlast 200N complies with ASTM C494 as Type A. Water reducing admixtures for concrete.

MIXING TYPICAL DOSAGE

Typical dosage of ChemPlast 200 N is 250 ml to 450 ml / 100 kg of cementitious material, including PFA, GGBFS and Micro silica. For optimum performance and dosage, ChemPlast 200 N should always be determined by running site trials using the materials intended for use under prevailing site conditions. This allows for the complete assessment of the concrete mix, optimization of materials and admixture dosage

USE AT OTHER DOSAGES

Dosages outside the typical ranges quoted may be used if necessary, provided that performance is assessed through trial mixes and adequate supervision is available. Contact Chem Coats Technical Department for advice in these cases.

PHYSICAL PROPERTIES	
Appearance	Brown liquid
Specific Gravity	1.19 @ 20°C
Air entrainment	< 2 % (@ mid-range dosage)
Alkali content	< 5.0 gms Na_2O equivalent / ltr of admixture
Freezing point	Approx. -3°C

COMPATIBILITY

ChemPlast 200 N is compatible with other Chem Coats admixtures in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The performance of concrete containing more than one admixture should be assessed by the trial mix procedure to ensure that effects such as unwanted retardation do not occur.

DISPENSING

The correct quantity of ChemPlast 200 N should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results.

REDUCING WATER PERMEABILITY

The single most important factor in concrete in its hardened state is durability. By effectively reducing the mixing water ChemPlast 200 N reduces capillary reaction, porosity, and shrinkage. To produce a concrete with the benefits of low permeability and more durable concrete.

EFFECTS OF OVERDOSING

An overdose of double the intended amount of ChemPlast 200 N will result in an increase in retardation as compared to that normally obtained at the intended dosage. This effect is found with most water reducing admixtures, although the degree may vary. Retardation is affected by factors other than the admixture, depending on the mix details & conditions involved.

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Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired and will generally be increased. The effects of overdosing will be further increased if sulphate-resisting cement or cement replacement materials are used.

CLEANING

Dispensing equipment, pumps and bulk storage tanks as well as spillages of ChemPlast 200 N can be washed and cleaned with water.

PROTECTION ON COMPLETION

As with all structural concrete, good curing practice should be maintained. The most effective means of curing structures is by employing a good curing compound. Contact Chem Coats Technical Department for advice on the use of Chem Coats range of curing compounds.

MODEL SPECIFICATIONS

Incorporate ChemPlast 200 N in to the concrete mix at the rate of 250 - 450 ml / 100 kg of cementitious material, all in accordance with the manufactures instructions.

PACKAGING

ChemPlast 200 N is available in 200 ltr drums.

HANDLING & STORAGE

ChemPlast 200 N has a shelf life of 12 months provided the temperature is kept within the range of 2º C to 50º C. in the original packaging. In more extreme conditions this period might be shortened.

HEALTH & SAFETY

ChemPlast 200 N is non-hazardous. The use of gloves, eye protection is advised. Immediately wash with water in the event of contact with skin. Splashes into eyes should also be washed immediately with plenty of clean water and medical advice sought thereafter. ChemPlast 200 N is water based and non-flammable.

IMPORTANT NOTE

The information given in this data sheet is based on current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable. We cannot accept responsibility for any work carried out with our materials as we have no controls over methods of applications, site conditions etc. In view of the continuing research and development being undertaken in our laboratories, we advice customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local Chem Coats representative.

RANGE OF PRODUCTS

WATERPROOFING SYSTEMS	PREPACKED REPAIR MORTARS	SEALANTS
INDUSTRIAL FLOOR SURFACES	CEMENTITIOUS & EPOXY GROUTS	CRACK INJECTION
PROTECTIVE COATINGS	CONCRETE ADMIXTURES	CONCRETE ADHESIVE

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