

HYDROPLAST - 200

Complete High Performance Water Reducing Super-plasticizer

Product Description:

HYDROPLAST-200 is a high range, water-reducing “plasticizing” admixture formulated to improve workability, reduce permeability and improve durability. HYDROPLAST-200 is based on a blend of synthetic polymer and organic substances and other additives to improve performance. HYDROPLAST-200 is specifically suitable for HOT weather climates. HYDROPLAST-200 is formulated for effectively reducing the concrete mixing water demand and improving physical and mechanical properties of the resultant concrete. HYDROPLAST-200 is compatible with mineral based admixtures such as Silica Fume.

Primary Uses:

HYDROPLAST-200 is typically used to produce:

-) Ready mix concrete
-) Precast concrete
-) Used in concrete where delayed setting and extended workability are desired.
-) Mass concrete pours.
-) Ready mixed concrete.
-) Long distance transportation of concrete.
-) Pumped concrete.
-) Hot weather concreting.
-) All concrete works where good workability and increased waterproofing properties are required. Such as: swimming pools, sea walls, tunnels, bridges, basement, etc.

HYDROPLAST-200 has been incorporated in concrete used for

-) All types of high rise construction
-) Purification structures
-) Pre-stressed beams
-) Foundation piles
-) Diaphragm wall
-) Towers and chimneys
-) Tunnel linings
-) Irrigation canals
-) Airfield runways and roads

Advantages:

-) Reduced mixing water while maintaining same workability.
-) Improved workability & pumping properties.
-) Improved physical & mechanical properties.
-) Improved surface finish.
-) Improved cohesion minimizes risks of segregation, bleeding and creep.
-) Denser concrete improves waterproofing properties and protection of reinforcement steel against detrimental water-borne ion attack.
-) Water-based, non-flammable, non-toxic.
-) Chloride-free; suitable for pre-stressing.
-) Specially formulated for hot weather concreting.
-) Increased compressive and flexural strength.

Standards:

HYDROPLAST-200 is formulated to comply with all the requirements of:

-) ASTM C- 494, Type A
-) EN 943, Part 2, Tables 1 and 2

Technical Properties:

Appearance:	Dark brown liquid
Specific Gravity:	1.175 ± 0.005 at 20° C
Chloride content:	Nil
Additional air entrainment:	less than 1%
Water-reduction:	10-20 % of mixing water
Permeability:	Reduces concrete porosity, improves waterproofing and durability.
Compressive strength:	Increased early and ultimate compressive strengths
Cohesion:	Improved cohesion reduces risk of segregation
Compatibility:	Compatible with all types of Portland cement including Sulfate Resisting Cement (SRC)

Dosage Range:

Dosage is influenced by cement type, mix design, quality of used materials, ambient temperatures and other specific requirements, so site trials should be carried to determine the optimum dosage.

Dosage: typically 1-2% by the weight of total cementitious content (1-2 kg for 100 kg of cementitious material) depending on the slump requirement. **Hydroplast 200** is packed in 25litres keg, 210 litres drum

Dispensing:

HYDROPLAST-200 should be added with the last third of mixing water or immediately after complete mixing water addition. Do not add directly to the dry mix or cement. For proper administration an automatic dispenser shall be used.

Overdosing:

An overdose of HYDROPLAST-200 may result depending on dosage in an increase of workability and extension of setting time. Overdosed concrete must be protected against direct sun light and water evaporation.

Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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