

# HYDROPLAST - 200

## Complete High Performance Water Reducing Superplasticizer

### Product Description:

HYDROPLAST-100 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
- Use 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	
Water-reduction:	10–20 % of mixing water
Setting Times:	No effect at the recommended dosages.
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).Compatible with other HYDROSIL admixtures when dispensed separately

**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 0.5% to 3% by the weight of total cementitious content (cement + replacers if used)

**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.



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