

HYDROPLAST - 400

New Glenium (PCE) High Performance concrete Pumping Superplasticizer

Product Description:

HYDROPLAST-400 is a glenium new generation high performing polycarboxylate ether super plasticizer for self compacting and pumped concrete with impressive water reducing and anti bleeding and segregation properties.

HYDROPLAST-400 allows for the production high consistency mixed pumped concrete with low water – cement ratio , ensures a controlled extended workability and improves early strength development. HYDROPLAST-400 is suitable for HOT climate , minimizes bleeding and segregation tendencies.

Working Principle:

HYDROPLAST-400 improves the cement dispersion within the concrete significantly. This property allows for the formation of a homogeneous and low viscosity cement paste which ensures an improved workability, extended workability and slump retention.

Primary Uses:

HYDROPLAST-400 is typically used to produce:

- Ready mix concrete to be pumped
- Self compacting concrete

HYDROPLAST-300 has been incorporated in concrete used for

- All types of high rise construction
- Purification structures
- Pre-stressed beams
- Towers and chimneys

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-300 is formulated to comply with all the requirements of:

- ASTM C- 494,
- Type AEN 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		
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 1.5% by the weight of total cementitious content (cement + replacers if used)

Dispensing:

HYDROPLAST-300 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-300 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

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