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**Technical Bulletin**

**Hardt Polycarboxylate Liquid**

**Superplasticizer**

Polycarboxylate Liquid is a high performance acrylic based polymer specifically developed to achieve improved concrete properties. It is an effective dispersant, fluidifier and high range water reducing agent.

**Advantages:**

* Produces extended slump life.
* Improves the flow properties of the concrete mix by dispersing the particles and preventing re-agglomeration.
* Improves the rheological and mechanical properties of concrete such as workability, compressive and flexural strengths, and modulus of elasticity.
* Promotes usage of cementitious supplementary materials such as silica fume, fly ash and blast furnace slag.

**Recommended for:**

* High performance concrete
* Precasting
* Pumping concrete
* Concrete containing fly ash or silica fume
* Blast furnace slag concrete
* Specially shaped concrete slabs
* Architectural concrete
* Self-compacting concrete
* Lightweight concrete
* Marine concrete

**Typical Properties:**

Appearance Clear Liquid

pH 10% solution 4.3

Solids 39 %

**Dosage Rate:**

Dosage rates vary greatly the mix design and mix components. In general dosages can range from 0.2% – 1% of weight of cementious materials. Trial batches are strongly recommended.

#### Packaging, Storage & Handling

Packaged in tankwagons and 2500 lb. totes.

Do not allow product temperature to drop below freezing.

Keep containers closed and away from excessive heat.

Additional handling information is contained in a Safety Data Sheet, which is available upon request.