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**Technical Bulletin**

**Hardt Polycarboxylate Powder**

**Superplasticizer**

Polycarboxylate Powder 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 White-yellow powder

pH 2.5% solution 7

Solids minimum 92%

Chlorides max 0.07%

**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 25 kg bags on 1 metric ton pallets..

Keep dry

Keep containers closed and away from excessive heat.

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