

Trumix LLC

Concrete Admixture Company
PO Box 100367, Irondale AL 35210

Trumix P500

Other name: ACT 5000

Powdered Polycarboxylate Ether, HRWR, Superplasticizer & Grout Fluidifier

Description:

Trumix P500 is a powdered polycarboxylate ether, high range water reducer, superplasticizer and grout fluidizer. It has been formulated to provide maximum workability of the concrete, mortar and grout.

Trumix P500 will give maximum water reduction. As any other polycarboxylate, Trumix P500 can cause thixotropy behavior, which is a desired condition to reduce the lateral pressure of formwork.

Trumix P500 does not have any intentionally added formaldehyde, chloride ions and should not initiate or promote the corrosion of steel present in concrete.

Applications:

Trumix P500 can be used for dry concrete bag, ready mixed, precast and grout applications:

- Trumix P500 can be used for dry mixed concrete and mortar. It will help reducing water needed for the mix, therefore the concrete / mortar will have high strength and/or will give a much better slump / flow of self-consolidating concrete.
- Trumix P500 can also be added for ready mix or precast applications. The Trumix P500 will provide excellent workability to the concrete
- Trumix P500 will maximize the flow of grout mixes for easy pumping.

Advantages:

Trumix P500 is a dry powder in water soluble bag. The dosage range can vary from 0.25 lb to 2.0 lb/yd³ of concrete. Typical dosage is between 0.5 to 1 lb/yd³ of concrete. Consult Higher dosage is possible. A trial batch is recommended to avoid any unwanted slight retardation.

Adding a pre-determined weight of Trumix P500 or any superplasticizer or high range water reducer (HRWR) at the job site will maximize the slump of the concrete. Concrete with superplasticizer or HRWR added at batch plant will be subjected to slump loss during transportation and waiting time at the project.

Water Reduction and Workability:

Trumix P500 will help reduce the use of water and get the desired slump or will help workability when batching water is kept the same as control mix.

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Extended Slump Life:

Trumix P500 in combination with a small quantity of Trumix Retarder and Trumix WR can extend the slump life and workability / plasticity of the mix. It has been proven that Trumix P500 & small amount(s) of Trumix retarder/hydration stabilizer can extend the slump life for 180 minutes or longer.

Benefits:

Trumix P500 is formulated to help:

- Increase slump and/or increase strength
- Enhance pumping of concrete
- Maximize the water reduction and achieve the desired slump or spread
- Reduce surface defects and avoid honeycomb in hardened concrete

Combination with other admixtures:

Trumix P500 is compatible with most of the Trumix Air, Trumix Retarder, Trumix WR, Trumix VMA or other concrete admixtures. However, it is always necessary to do trial batches when other admixture(s) is going to be used in combination with Trumix P500.

Trumix P500 in combination with Trumix VMA can be used to prevent bleeding of concrete.

Combination with other SCM (secondary cementitious materials) and other powder (such as limestone powder)

Trumix P500 is compatible with SCM such as fly ash class F or C, slag cement, silica fume, meta-kaolin or limestone powder. It is highly recommended to do a trial batch to assure the effectiveness of the combined materials in concrete.

Physical Properties:

Color:	Off white to Light gray
Bulk Density, Kg/m ³	0.40 – 0.60

Dosage Rate and Mixing Time:

Typical dosage of the admixture may vary from 0.25 to 2.0 lb/yd³ of concrete. A trial batch is highly recommended to determine the right dosage.

Packaging:

Trumix P500 is available in 2 lb in water soluble bags. Custom weight is also available upon request. A five-gallon square bucket is used to package 12 - 2 lb bags. Each pallet contains 48 square buckets.

ACT 5000 is available in 25 kg bags with plastic liners. Each pallet contains 40 bags.