

# SUPER PLASTICIZER HIGH-RANGE WATER REDUCER FOR CONCRETE

ASTM C-494 TYPE A & F; AASHTO M-194 TYPE A & F; CRD C-87 TYPE A & F

**DESCRIPTION** PolyStrong is a polycarboxylate-based full range water reducing admixture designed to provide optimum results at all levels of dosage rates. It will meet and exceed the requirements of both a Type A (water reducing) and Type F (high-range water reducing) admixtures. The linear dosage characteristics of PolyStrong will improve the properties of concrete in all stages.

**ADVANTAGES** PolyStrong provides the following:

- Full range of water reduction can be achieved with one product
- Increases compressive strength and flexural strength performance at all ages
- Improves the setting times and strength development of concrete in all stages
- Enhances the pumpability, placement and finishability of all concrete
- Develops a superior finish on all formed surfaces
- Enhances compaction with minimal vibration
- Greatly improves all concrete containing Pozzolanic materials

**PERFORMANCE** PolyStrong optimizes the performance of concrete under the most demanding conditions, as shown in the following table:

CONCRETE*	Setting Time		Slump Retention			Compressive Strength					
	Initial Set	Difference	.in (mm)			1 Day		7 Days		28 Days	
	(h:min)	(h:min)	15 Min.	30 Min.	60 Min	PSI	MPa	PSI	MPa	PSI	MPa
NO ADMIXTURE	4:30	0	8	8	7	2530	17.4	4290	29.6	5960	41.1
CONVENTIONAL HRWR	5:45	+ 1.15	8.25	5	3.5	3050	21.0	5200	35.9	6800	46.9
POLYSTRONG	4:47	+ .17	9.0	8.75	7.75	3220	22.2	6660	45.9	8350	57.6

\*CONCRETE MIX DESIGN: 600 Lb./Cu. Yd. of Type I cement (360 kg/M<sup>3</sup>) Slump 8.0-9.0 in. (200-230 mm) Non-air-entrained concrete Dosage rate adjusted to obtain 25-30% water reduction

**DOSAGE RATES** PolyStrong has a recommended dosage rate of up to 3 fl. oz./cwt (295 mL/100 kg) for Type A applications, 3-6 fl. oz./cwt (195-390 mL/100 kg) for use as a mid range, and up to 18 fl. oz./cwt (1,120 mL/kg) for Type F applications. PolyStrong should be added at the end of the mix cycle. The exact dosage depends upon a number of variables and is best determined through field evaluations and the recommendations of a Great Eastern representative.

**NON-CHLORIDE, NON-CORROSIVE** PolyStrong admixture will not initiate or promote corrosion of reinforcing steel embedded in concrete, pre-stressed concrete or concrete placed on galvanized steel floor and roof systems. Calcium chloride is **NOT** an added ingredient in the manufacture of PolyStrong.

**COMPATIBILITY** Do not mix PolyStrong with naphthalene-based admixtures. For recommendations contact your Great Eastern Technologies representative.

**PACKAGING** Bulk, totes, 55-gallon drums, 5-gallon pails

**PRECAUTIONS** Care should be taken to maintain product temperature above 40° F. Refer to MSDS for chemical properties.



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