

**WATER-REDUCING RETARDING ADMIXTURE FOR CONCRETE**

ASTM C-494 TYPE D; AASHTO M-194 TYPE D; CRD C-87 TYPE D

**DESCRIPTION** Chemstrong® R is a set controlling (retarding), water-reducing admixture for concrete. Chemstrong® R will slow down the hydration of cement and lengthen set time. It is beneficial in hot weather conditions in order to overcome accelerating effects of higher temperatures and large masses of concrete on concrete setting times. Chemstrong® R is a multi-component concentrated liquid admixture, which also reduces the amount of mixing water required for concrete of a given consistency and increases efficiency of cement hydration while improving untreated concrete.

**ADVANTAGES** **Improvements in Plastic Concrete**

Less mixing water for equivalent workability  
Reduces segregation  
Superior finishing characteristics  
Extends finishing time 1 to 3 hours

**Improvements in Hardened Concrete**

Increases compressive and flexural strengths  
Minimizes cracking  
Reduces permeability - more water-tight concrete  
Renders air-entrained concrete more resistant to freezing and thawing  
Superior appearance of finished concrete

**PERFORMANCE** Cement factor - 517 lbs./C.Y. Non air-entrained mix - typical results for weather reduction, strength, setting time and shrinkage.

Per Cubic Yard	Plain	Chemstrong®R	Dosage/100 lbs. cement	Initial Set Delay, Hours
Water, gals.	33.0	31.0	2 fl. oz.	1.0
Chemstrong® R, fl. oz.	0	11.0	3 fl. oz.	1.8
Slump, inches	2.5	2.5	4 fl. oz.	2.5
Initial Set, hrs.	4.95	6.00		
Compr. Str. 28 day, psi	4127.0	4927.0		
Flex. Str. 28 day, psi	767.0	875.0		
Shrinkage, per cent	.032	.029		

**NON-CHLORIDE, NON-CORROSIVE** Chemstrong® R 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 Chemstrong® R.

**DOSAGE** Chemstrong® R is used at the rate of  $3 \pm 1$  fl. oz./100 lbs. ( $195 \pm 65$  mL per 100 kg) of cement for most concrete mixes using average concrete ingredients. Due to variations in concrete materials and job conditions, other dosage rates may be required. Contact your Great Eastern representative.

**COMPATIBILITY** Chemstrong® R does not entrain air but is compatible with air-entrained mixes. Chemstrong® R is recommended for use in all concrete. When used with air-entrained mixes, it must be added separately to the concrete. 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.



*Technology and Products That Offer Solutions*

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**KEEP CONTAINER TIGHTLY CLOSED.  
KEEP OUT OF REACH OF CHILDREN.  
NOT FOR INTERNAL CONSUMPTION.  
FOR INDUSTRIAL USE ONLY.  
CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION.**

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