

# RUSSTECH<sup>®</sup>

## ENUMERON

**NON-CHLORIDE  
HIGH EARLY STRENGTH  
ENHANCEMENT  
ADMIXTURE FOR CONCRETE**

### DESCRIPTION:

**ENUMERON** is a multi-component, chloride-free, strength enhancing admixture for concrete. It promotes higher early and ultimate strengths at all ages. **ENUMERON** can be used in warmer climates where accelerated set times are less desirable.

### USES:

- Can be used year round for higher and earlier strength gain
- Concrete subject to chloride ion constraints
- Concrete bridge decks and prestressed concrete repair
- Prestressed concrete and concrete over metal decking and roof systems
- Pre-cast, site cast, and all other steel reinforced concrete
- Concrete needing much higher strengths in less than 24 hours
- High performance concrete placed during warmer months

### ADVANTAGES:

- Provides higher early and ultimate strengths with no negative effect on mix properties
- Improves overall strengths at all ages
- Increases rate at which heat is generated during hydration- promotes faster strength gain
- Earlier use of structural concrete
- Faster stripping and reuse of forms
- Improves cohesiveness and plasticity which aids in avoiding honeycombing
- Provides superior finishability on all flatwork and pre-cast surfaces
- Reduces protection time required in cold weather

### SPECIFICATIONS:

Conforms to ASTM C 494 Type C  
AASHTO M 194 Type C  
CRD C 87 Type C  
All other Federal and State specifications

### MIX PERFORMANCE DATA:

517 lbs. (307 kg) of Type I cement per cubic yard (cubic meter) Slump 7.0 inches (178 mm)  
Ambient Temperature 60 F (15 C)  
Concrete Temperature 60 F (15 C)  
Concrete field cured at 60 F (15 C) during the whole 7 day cycle.

### Compressive Strength Results:

**ENUMERON** at 32 ounces per 100 pounds (2088 mL per 100 kg) cement

<u>Mix Age</u>	<u>Plain</u>		<u>ENUMERON</u>	
	<u>psi</u>	<u>MPa</u>	<u>psi</u>	<u>MPa</u>
12 Hours	720	4.96	1380	9.51
24 Hours	1830	12.62	2470	17.58
3 Day	3240	22.34	4230	29.16
7 Day	4290	29.58	5470	37.71

### TECHNICAL NOTE:

**ENUMERON** does not contain calcium chloride or any chloride-based components. **ENUMERON** will not initiate or promote the corrosion of steel in concrete used with:

- Galvanized steel flooring or roofing systems left for permanent construction
- Rebar, wire mesh or metal fibers
- Pre-cast, site cast, and prestressed steel reinforcement
- Steel cable in both pre-tensioned and post-tensioned applications

## **DOSAGE RATE:**

**ENUMERON** is recommended for use at a dosage rate of 8 to 70 fluid ounces per 100 pounds (522 to 4565 mL per 100kg) of cementitious.

## **PACKAGING:**

55-gallon drums, 275-gallon tote tanks, and bulk tank truck.

## **STORAGE:**

**ENUMERON** may freeze at temperatures below 5 F (-15 C). Although freezing does not harm **ENUMERON**, precautions should be taken to protect it from freezing. If it should happen to freeze, thaw and reconstitute with mechanical agitation. **Do Not Use Pressurized Air For Agitation.**

## **COMPATIBILITY:**

**ENUMERON** is compatible with all types of Portland cement, class C and F fly ash, silica fume, fibers, all approved air entraining, accelerating, superplasticizing, and water-reducing admixtures. For best results, each admixture must be added separately to the concrete mix.

## **SHELF LIFE:**

18 months

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