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# RUSSTECH<sup>®</sup>

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## RVR-15

### *VINSOL RESIN AIR ENTRAINING ADMIXTURE FOR CONCRETE*

#### **DESCRIPTION:**

**RVR-15** is specially formulated for use as an air entraining admixture for concrete. **RVR-15** is manufactured under strict quality control standards to insure uniform performance at the job site.

#### **ADVANTAGES:**

**RVR-15** introduces millions of uniformly sized and spaced air voids throughout the concrete mixture. Concrete containing these tiny, air bubbles has been proven far more resistant to freezing and thawing than plain concrete.

**RVR-15** in hardened concrete reduces permeability and enhances the resistance to surface deterioration caused by de-icing chemicals. Concrete containing **RVR-15** requires less water, therefore bleeding is reduced. **RVR-15** aids in finishing and produces a more water tight concrete with a lower water-cement ratio. The air bubbles act as "ball-bearings" to greatly improve the plasticity and workability of the concrete, making it easier to flow into forms or be pumped into place. Concrete mixes designed using **RVR-15** result in a reduction of segregation and honeycombing with smoother and more even finished surfaces.

#### **USES:**

**RVR-15** may be used wherever air entrainment is required by concrete specifications. It is particularly useful in:

- All commercial and residential concrete
- Mass concrete
- High cement, low slump paving mixes
- Mixes with high carbon content fly ash
- Concrete using high-alkali cement
- All concrete to be exposed to freezing and thawing conditions
- Concrete to be mixed for an extended period of time

#### **DOSAGE:**

There is no standard addition rate for **RVR-15**. The amount to be used will vary with local materials and intended concrete performance requirements, usually in the range of 4% to 6%. Typical RVR- 15 addition rates range from .5 to 2 ounces per 100 pounds (33 to 130 mL per 100 kg) of cement.

#### **SPECIFICATIONS:**

Conforms to ASTM C 260

AASHTO M 154

CRD C 13

All other Federal and State specifications

#### **TECHNICAL NOTE:**

**RVR-15** does not contain calcium chloride or any chloride based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

#### **COMPATIBILITY:**

**RVR-15** is fully effective and compatible in concrete containing all types of Portland cement, class C and F fly ash, silica fume, calcium chloride, fibers, and approved water-reducing, accelerating and retarding admixtures. **RVR-15** can be used in white, colored, and architectural concrete. For best results, the air entrainment should be dispensed separately into the mix with the initial batch water or on damp, fine aggregate.

#### **STORAGE:**

**RVR-15** should be stored at temperatures above 35F (2C) degrees. Although freezing does not harm the performance of **RVR-15**, 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.**

**PACKAGING:**

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

**SHELF LIFE:**

18 months

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