

# PCA-SRA

## Shrinkage-Reducing Admixture for Concrete

### PRODUCT INFORMATION

#### PACKAGING

Packaged in 5 gallon pails, 55 gallon drums, and 275 gallon totes.

#### SHELF LIFE

18 months in original unopened container.

#### STORAGE

Protect **PCA-SRA** from freezing.

#### SPECIFICATIONS/COMPLIANCES

ASTM C1240

AASHTO M 307

### DESCRIPTION

**PCA-SRA** is a liquid shrinkage-reducing admixture, designed for use in ready-mix concrete. **PCA-SRA** can be used in any Portland cement-based product to significantly decrease drying shrinkage. **PCA-SRA** is manufactured under rigid quality control measures to provide uniform, reliable results.

### PERFORMANCE BENEFITS

- High level of shrinkage reduction in restrained concrete
- Reduces potential for cracking
- Reduces creep and curling of slabs
- Improves aesthetics
- Improves hydration efficiency
- Improves durability of the concrete

### DOSAGE RATES AND DIRECTIONS FOR USE

**PCA-SRA** is recommended for use at a dose of 1.0% to 2.5% by weight of cementitious. For maximum effectiveness, use 2% by weight of cementitious. For example, a mix containing 600 lbs/yd<sup>3</sup>, 2% equates to 12 lbs/yd<sup>3</sup> or 1.5 gals/yd<sup>3</sup>.

**PCA-SRA** dosage rate depends on desired performance characteristics, mix variables, and conditions at time of placement. Higher dosages are acceptable with prior testing and confirmation of the desired performance with specific materials used.

For best results, each admixture must be batched at separate intervals with the initial or final batch water, and should not come in direct contact with any other admixture until they are mixed in the concrete batch. Admixtures should not come in contact with any dry cementitious material.

### TECHNICAL NOTES

**PCA-SRA** is compatible with Portland cements, Portland limestone cements, blended cements, class C and F fly ash, slag cements, silica fume, calcium chloride, and fibers. **PCA-SRA** can be used in all white, colored, and architectural concrete.

**MIX WATER ADJUSTMENT:** A water adjustment must be made to allow for the **PCA-SRA** in the mix. The water in the mix should be reduced by as much as the volume added through the addition of the shrinkage-reducing admixture.

**EFFECT ON FRESH CONCRETE:** If **PCA-SRA** is substituted in the mix with an equal amount of water reduced, there is little or no effect on the slump. The initial set times are typically retarded by about one hour and will improve slump retention.

**EFFECT ON HARDENED CONCRETE:** Significantly reduces drying shrinkage, consequently reduces or possibly eliminates cracks. Compressive strength may be slightly less than normal. It is reasonable to expect a 0 to 10% strength loss, but this is usually not an issue. For mixes where strength must be maintained, mid-range water reducers can be incorporated to reduce water to offset any strength reduction.

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## PRECAUTIONS/LIMITATIONS

This product does not contain calcium chloride or chloride containing compounds, and any chloride ions present are in trace amounts resulting from municipal water used during the manufacturing process.

This product is compatible with most other admixtures when added to the mix separately. Always conduct trial batches, prior to job applications, to confirm compatibility and to verify mix results. Contact your technical sales representative before dosing outside of recommended ranges or for assistance with specialty applications.

In all cases, consult the safety data sheet prior to use.

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