

PCA-DSF

Densified Silica Fume Admixture for Concrete

PRODUCT INFORMATION

PACKAGING

Packaged in 50 lb. (22.7 kg) bags, 25 lb. (11.3 kg) bags, or in bulk.

SHELF LIFE

2 years in original unopened container.

STORAGE

Protect **PCA-DSF** from temperatures under 32°F. Store in a dry, well-ventilated location.

SPECIFICATIONS/COMPLIANCES

ASTM C1240
AASHTO M 307

DESCRIPTION

PCA-DSF is a high performance, densified silica fume powder mineral admixture used to produce high performance concretes with special performance properties including increased strength, reduced permeability, improved abrasion resistance and increased corrosion resistance. **PCA-DSF** enhances the performance of plastic and hardened concrete. **PCA-DSF** is manufactured under rigid quality control measures to provide uniform, reliable results.

PERFORMANCE BENEFITS

- Reduces permeability
- Improves durability
- Increases compressive and flexural strength
- Increases resistance to chemical attack and corrosion
- Increases abrasion resistance

DOSAGE RATES AND DIRECTIONS FOR USE

PCA-DSF dosage rate will vary depending on the strength increase, reduction in permeability and other physical properties desired. The recommended dosage range is from 5% to 15% by weight of cementitious.

PCA-DSF 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-DSF 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-DSF** can be used in all white, colored, and architectural concrete.

When using **PCA-DSF** it is strongly recommended that the practices in ACI 302 and ACI 308 be carefully followed, as silica fume modified concrete will typically exhibit very little if any surface bleed water.

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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