

Intrusion-Aid Grout Fluidifiers

Specrete's Intrusion-Aid products meet or exceed the necessary requirements to be considered a Grout Fluidifier according to ASTM C 937. This specification was originally written with grout in mind and it is well suited for ACIP piling. The descriptions below identify why each of the requirements is important in ACIP piling.

Increased Water Retention

Water retention is the ability of the grout to retain its mix water despite the forces trying to extract it. Water retention is one of the most important considerations in ACIP piling. As soon as the grout makes contact with the soil it begins to lose water. If the grout loses too much water it will stiffen and the reinforcing steel will not be able to fall. Intrusion-Aid "X" products increase the acceptable "window of time" between grouting and setting the cage.

Improved Stability

Improper mix designs can lead to segregation of the materials (bleed water rising to the surface and precipitation of the aggregate). Segregation leads to pumping issues, lower compressive strength and incomplete void filling. Intrusion-Aid products help to keep the materials in suspension so these problems don't occur.

Increased Fluidity (Water Reduction)

Intrusion-Aid products allow you to use less water while maintaining your target workability. A lower water-cement ratio will lead to increased compressive strength.

Plastic Expansion

Intrusion-Aid products provide a small amount of growth (1-2%) prior to initial set. This ensures that voids are completely filled and improves the side friction of an ACIP pile. It also prevents setting shrinkage and further reduces bleed.

Intrusion-Aid MAX

- Maximum Amount of Water Retention
- Longest Window of Time to Drop Cages
- Anti-Washout Properties

Intrusion-Aid SCX

- The Original Water Retentive Additive
- Adequate for Most Soil Conditions
- Anti-Washout Properties

Intrusion-Aid FGX

- Improved Stabilization
- Some Water Retention
- Mid-Range Water Reduction

Intrusion-Aid FG+

- Stabilizes Neat Cement Grouts
- Shrinkage Compensating to Fill Voids
- Reduces Bleed and Segregation

Intrusion-Aid SCG

- Premium Grout Fluidifier
- High-Range Water Reduction
- Low Dosage Rate

Intrusion-Aid FG

- Mid-Range Water Reduction
- Balanced Formula Prevents Segregation
- Low Dosage Rate

Intrusion-Aid DSC

- Normal-Range Water Reduction
- Inexpensive Grout Fluidifier

