

Non-Shrink, Cementitious Grouts are designed to be placed in areas where their expansion is restrained, i.e. under a base plate or in a form-and-pour or form-and-pump installation.

Left unrestrained the non-shrink grout will expand beyond its capabilities and, in most cases, will result in cracking and lower overall performance.

### There are 2 types of cementitious grouts

- Metallic
- Non-Metallic

The metallic grouts are older technology, are prone to rusting but are good in repetitive dynamic loading.

A third type of grout is epoxy grouts which are best for the dynamic loading applications.

### Standard Specification for Grout ASTM C-1107

Surfaces for grouting must be clean and in a saturated-surface-dry (SSD) condition

- Application of grout should be from one side of the area to be grouted and in one continuous flow
- The use of a head box is recommended on larger applications
- It is best, when installing base plate grout, to bevel the edge of the grout @ a 45° angle from the underside of the base plate
- Always “**cure**” the exposed surfaces of the grout
- It is recommended to have a minimum annular space of 1/2” when non-shrink cementitious grouts are used for doweling or anchoring
- When using less than a full bag of grout (or any cementitious material) always first mixes the bag so that a representative sample is obtained.

- Maximum depth of grout is 3”, after which 25# of clean, SSD, 3/8” pea-stone should be added per 50# bag of grout

### Cold Weather Grouting

Follow ACI 306 Cold Weather Concreting recommendations. Heat water, precondition (warm) the grout, heat the substrate and protect from freezing until sufficient compressive strength is reached to protect the grout from freeze-thaw damage.

Dayton Superior has a cold weather grout that will offer high strength @ temperatures as low as 35°F [Turbo Grout LT-12]

### Hot Weather Grouting

Follow ACI 305 Hot Weather Concreting recommendations. Use cold water, precondition (cool) the grout by removing shrink wrap & keeping out of the sun, cool the substrate

## Dayton Superior Cementitious Grouts:

### 1107 Advantage Grout

- Good flow, good strength, cost-effective, meets ASTM C-1107

### Sure-Grip® High Performance Grout

- High flow, high strength, meets ASTM C-1107

### Sure-Grip® Precision Grout

- Non-gaseous, high flow meets ASTM C-1107
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### Dri Pak Precast Grout

- Formulated specifically for dry pack applications.

## *Guide to Grouts Continued*

### **Turbo Grout HP-12**

- Designed for wind turbine towers, 5,500 psi @ 1-day, 12,000 psi @ 28-day @ flowable consistency.

### **Turbo Grout LT-12**

- Designed for wind turbine towers at low temperatures, 12,000 psi @ 28-day @ 35° F.

### **Underwater Grout**

- Designed to resist washout in underwater or tidal zone applications

### **D490 Sleeve-Lock Grout**

- Metallic grout designed specifically for the Dayton Superior D410 Sleeve-Lock Grout Sleeve

## **Dayton Superior Epoxy Grouts**

### **Epoxy Grout J-55**

- High-early strength, 3 component epoxy grout producing 10,000 psi @ 1-day and 14,500 psi @ 7 days

### **Poxy-Chock**

- 100% solids 2 component, non-shrink epoxy chocking and casting compound