

SureGrout UW AE



SureGrout UW AE is a structural grouting and concrete compound designed for underwater placement. SureGrout UW AE is air-entrained, contains a migrating corrosion inhibiting agent, and an anti-washout additive for marine applications, and requires only the addition of water to produce a pumpable underwater non-shrink grout; or, when extended with aggregate, produces an underwater, air-entrained concrete mix. SureGrout UW AE is recommended whenever an air-entrained underwater grout or concrete mix is required repair deteriorated underwater or tidal zone concrete structures without significant “wash-out” of the cement, as well as bridge columns, concrete piling, and dams.

ADVANTAGES

- ✔ Easy mixing – Just add water
- ✔ Non-Shrinking
- ✔ No De-Watering Required
- ✔ Air Entrained
- ✔ Salt Water Resistant
- ✔ Excellent Bond Strength
- ✔ Shrinkage Compensated for Large Volume Placement
- ✔ May Be Extended with 3/8" Pea Gravel to create underwater concrete
- ✔ LEED Credits
- ✔ Integral Corrosion Inhibiting Agent
- ✔ Low In-Place Cost
- ✔ Pumpable & Flowable
- ✔ Non-Raveling
- ✔ Non-Corrosive
- ✔ Precision Blended
- ✔ Non-Metallic
- ✔ Non-Rusting

USES

- ✔ Marine Construction
- ✔ Dam Repairs
- ✔ Piers
- ✔ Bridge Repairs
- ✔ Pile Jacketing Repairs
- ✔ Form & Pour Repairs Above Water
- ✔ Seawalls
- ✔ Sewer Pipe
- ✔ Bridge Columns
- ✔ Tunnels
- ✔ Underwater Grouting Applications

PACKAGING

- ✔ 50 lb. bags (.45 ft³)
- ✔ 3,000 lb. Bags (1 yd³)

TEST METHODS

TEST RESULTS

<i>Initial Set Time</i> (ASTM C-191)	3-4 Hours
<i>Final Set Time</i> (ASTM C-191)	5-6 Hours
<i>Working Time</i>	45 Minutes
<i>Compressive Strength</i> (ASTM C-109) 1 Day 7 Days 28 Days	4,500 psi. 8,000 psi. 8,500 psi.
<i>Compressive Strength</i> (ASTM C-39) 1 Day 7 Days 28 Days	5,000 psi. 8,500 psi. 9,000 psi.
<i>Height Change Moist Cured</i> (ASTM C-1090) 28 Days	+0.03%
<i>Early Age Height Change</i> (ASTM C-827) Maximum 4% Allowed	+0.10%
<i>Slant Shear Bond Strength</i> (ASTM C-882) 28 Days	2,500 psi.
<i>Air Content</i> (ASTM C-231)	Approx. 7%
<i>Length Change-Wet</i> (ASTM C-157)	+0.04 @ 28 Days
<i>Length Change-Dry</i> (ASTM C-157)	-0.14 @ 28 Days
<i>Freeze-Thaw Resistance</i> (ASTM C-666, Procedure A)	96.8% Relative Dynamic Modulus