

# K Pro UW Grout



**K Pro UW Grout** is a marine-grade, 100% solids, two-component, and moisture insensitive epoxy resin system specifically engineered for use in the restoration of structural pile members in underwater applications. K Pro UW Grout is a low viscosity resin that be filled with our low dust K Pro UW Aggregate to produce a flowable epoxy grout that can either be pumped, tremied, or even poured into the annular space between the piling and the pile jacket. K Pro UW Grout may be used in fresh, salt, or brackish water, and bonds effectively to wood, concrete, steel, and fiberglass pile jackets.

## ADVANTAGES

- ✓ Easy 2:1 Epoxy Mixing Ratio
- ✓ Extended Pot Life
- ✓ Pumpable, Flowable, and Pourable
- ✓ Placement Without De-Watering
- ✓ High Compressive Strengths
- ✓ Moisture Insensitive
- ✓ Low Dust
- ✓ Solvent-Free
- ✓ May Be Pumped, Tremied, or Poured
- ✓ Bonds to Steel, Wood, and Fiberglass Pile Jackets
- ✓ LEED Credits
- ✓ Non-Segregating
- ✓ Impact Resistant
- ✓ Chemical Resistant
- ✓ Low In-Place Cost
- ✓ Low Water Absorption
- ✓ Water-Resistant

## USES

- ✓ Pile Jacketing Applications
- ✓ Underwater Grouting
- ✓ Pumping Applications
- ✓ Tremie Grouting
- ✓ Piers
- ✓ Dams
- ✓ Sea Walls
- ✓ Bridges
- ✓ Marine Structures

## PACKAGING: HIGH FLOW MIX RATIO

UNIT SIZE	A COMPONENT	B COMPONENT	AGGREGATE
1.05 ft <sup>3</sup> Unit	2 Gallon Pail	1 Gallon Can	100 lbs. (2 Bags)
5.25 ft <sup>3</sup> Unit	(2) 5 Gallon Pails	(1) 5-Gallon Pail	500 Lbs. (10 Bags)

## PACKAGING: STANDARD MIX RATIO

UNIT SIZE	A COMPONENT	B COMPONENT	AGGEGATE
1.38 ft <sup>3</sup> Unit	2 Gallon Pail	1 Gallon Can	150 lbs. (3 Bags)
6.90 ft <sup>3</sup> Unit	(2) 5 Gallon Pails	(1) 5-Gallon Pail	750 Lbs. (15 Bags)

## TEST METHODS

TEST METHODS	HIGH FLOW MIX RATIO TEST RESULTS	STANDARD MIX RATIO TEST RESULTS
Mix Ratio	2:1 by Volume	
Gel Time (ASTM C-881)	55-65 Minutes	
Viscosity (ASTM D-2556)	200-400 cps.	
Shelf Life	2 Years	
Density (ASTM C-905)	121 lbs/ft <sup>3</sup>	128 lbs/ft <sup>3</sup>
VOC Content	0 Grams/Liter	
<b>TECHNICAL INFO.</b>		
Bond Strength (ASTM C-882) 2 Days Moist Cure 14 Days Moist Cure 14 Days Air Cured	1,500 psi. 2,500 psi. 2,300 psi.	
Compressive Strength (ASTM D-695) 1 day 7 Days	4,000 psi. 9,870 psi.	
Compressive Strength (ASTM C-579 Procedure B) 1 Day 7 Days 28 Days	6,000 psi. 13,200 psi. 14,500 psi.	5,750 psi. 13,700 psi. 14,600 psi.
Flexural Strength (ASTM C-580) 7 Days	5,300 psi.	5,200 psi.
Adhesion (ASTM D-4541) Fiberglass PVC Steel Marine Wood	1,500 psi 1,400 psi 2,000 psi 1,800 psi	
Adhesion (ASTM D-7234) Concrete	500 psi	
Tensile Strength (ASTM C-307)	2,550 psi.	2,450 psi.
Tensile Strength (ASTM D-638) 7 Days	6,500 psi.	
Tensile Elongation (ASTM D-638)	8-10%	
Water Absorption (ASTM D-570)	0.07% at 24 Hours	
Effective Bearing Area (ASTM C-1339)	>85%	