

# K Pro UW Grout



**K Pro UW Grout** is a marine-grade, 100% solids, two component, extended pot life, and moisture-insensitive epoxy resin system, specifically engineered for use in the restoration of structural pile members in underwater applications. K Pro UC Epoxy Grout is a low viscosity resin that may be filled with aggregate to produce a flowable, pumpable, and pourable epoxy grout that can either be pumped, poured, or tremied into the annular space between the piling and the pile jacket. K Pro UC Epoxy Grout does not contain fillers or non-reactive diluents, 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
- ☑ 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
- ☑ Above and Below Water

## 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	2:1 by Volume
Gel Time (ASTM C-881)	60-70 Minutes	60-70 Minutes
Viscosity (ASTM D-2556)	400-600 cps.	400-600 cps.
Shelf Life	2 Years	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. 9,000 psi.
Compressive Strength (ASTM C-579 Procedure B) 1 Day 7 Days 28 Days	9,000 psi. 13,000 psi. 13,500 psi.	10,000 psi. 13,400 psi. 13,800 psi.
Flexural Strength (ASTM C-580) 7 Days	4,700 psi.	4,400 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)	2,250 psi.	2,150 psi.
Tensile Strength (ASTM D-638) 7 Days		7,500 psi.
Tensile Elongation (ASTM D-638)		4-7%
Water Absorption (ASTM D-570)		0.07% at 24 Hours
Effective Bearing Area (ASTM C-1339)		>85%