

AQUASEAL LVS PILE GROUT

EPOXY GROUT FOR PILE ENCAPSULATION

DESCRIPTION

Aquaseal LVS Pile Grout is a pre-proportioned kit consisting of Aquaseal LVS, a two-component, 100% solids, low viscosity epoxy and a graded silica aggregate. Aquaseal LVS Pile Grout is designed to be used in combination with FRP jackets to encapsulate piles above and below the water line.

PRIMARY APPLICATIONS

- Pier supports
- Bridges
- Offshore rigs

FEATURES/BENEFITS

- Easy to mix marine grade epoxy grout
- High flow mix for ease in placement
- Can be used in fresh & salt water environments

TECHNICAL INFORMATION

Material Properties @ 75°F (24°C) and 50% RH

Mixing Ratio (A:B) by volume..... 3:2

Gel Time (100 gms), mins..... 45 to 60

Tensile Strength, ASTM C 307, psi (MPa) 2,100 (14.5)

Compressive Strength, ASTM D 695, psi (MPa) 7,000 (48.3)

Compressive Strength (mortar)

ASTM C 109, psi (MPa) 8,000 (55.2)

Shear Bond Strength

ASTM C 882, psi (MPa) (concrete failure) 2,500 (17.2)

Water Absorption, ASTM C 413 < 0.40%

Shore D Hardness, ASTM D 2240 80 - 85

PACKAGING

Aquaseal LVS Pile Grout is packaged in 2.0 ft³ (0.057 m³) units consisting of 3 gal (11.4 L) of Part A epoxy, 2 gal (7.6 L) of Part B epoxy and 4 - 55 lb (25 kg) bags of aggregate.

SHELF LIFE

2 years in original, unopened package

DIRECTIONS FOR USE

Surface Preparation: Surface to be encapsulated should be structurally sound, clean, free of loose or deteriorated concrete or coatings, marine growth or any other material that would impair adhesion. Mechanical abrasion or high pressure water blasting are preferred methods of surface preparation. Application of Aquaseal LVS Pile Grout should begin promptly after surface preparation to reduce possibility of surface contamination.



The Euclid Chemical Company

19218 Redwood Rd. • Cleveland, OH 44110

Phone: [216] 531-9222 • Toll-free: [800] 321-7628 • Fax: [216] 531-9596

www.euclidchemical.com

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Mixing: Mix parts A & B (resin & hardener) separately for 2 minutes using a slow speed drill and epoxy mixing paddle. After they have been mixed separately, mix parts A & B together. For ease of mixing, add the Part B to the Part A (not the reverse). The epoxy must be well mixed for 3 minutes to ensure proper chemical reaction. After the epoxy has been mixed pour it into a horizontal shaft mortar mixer and then add the 4 bags of Part C (aggregate) and mix for 2 to 3 minutes more until the aggregate is completely wetted out.

Placement: Immediately after mixing, quickly transport the grout to the placement site. Place the grout into the secured FRP jacket through the use of a headbox. Fill the annular space up as needed. When applying in a splash zone, protection should be provided from wave action until the product has reached initial cure (8-10 hours). Due to the many variables which can exist in underwater applications, a test application under job site conditions is recommended prior to the start of every project to evaluate both application techniques and adhesion properties. **Note:** Bring all Aquaseal LVS Pile Grout materials as close to 70°F (21°C) as possible 24 hours prior to placement. Cold temperatures will significantly reduce flow characteristics and will increase the difficulty of placement. Higher temperatures will increase initial flow but reduce working time.

CLEAN-UP

Clean tools and equipment immediately following use with acetone or methyl ethyl ketone. Hardened Aquaseal LVS Pile Grout will require mechanical abrasion for removal.

PRECAUTIONS/LIMITATIONS

- Store at temperatures between 50°F to 90°F (10°C to 32°C).
- Do not thin the Aquaseal LVS epoxy.
- Do not apply in water temperatures below 50° F (10° C).
- When applying in water temperatures below 60° F (16° C), condition the materials to 70°F (21°C) 24 hours prior to placement.
- In all cases, consult the Material Safety Data Sheet before use.

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