



PileMedic(R) by QuakeWrap
6840 S. Tucson Blvd.
Tucson, AZ 85756 U.S.A.
Phone: (520) 791-7000 Fax:
(520) 791-0600
www.PileMedic.com

Product Data Sheet

PileMedic™ UW Epoxy Grout

Underwater Epoxy Coating and Grouting System

DESCRIPTION

PileMedic™ UW Epoxy Grout is a two part 100% solids epoxy specifically designed for underwater concrete and masonry applications. PileMedic™ UW Epoxy Grout can be used in fresh or salt water applications. PileMedic™ UW Epoxy Grout is a low viscosity liquid that can be used neat for coating, crack injection or mixed with aggregate to grout or patch concrete.

USE

PileMedic™ UW Epoxy Grout can be used for coating, injecting, patching or grouting underwater concrete or steel piers or piles. Infra-Structure PileMedic™ UW Epoxy Grout can also be used for underwater tuckpointing, pile.

ADVANTAGES

- Versatile applications
- High strength adhesion and durability
- Excellent underwater cure
- Forms a pumpable low viscosity epoxy grout
- VOC Compliant

PACKAGING

5 gallon unit (3 gal. part A and 2 gal. part B)
15 gallon unit (10 gal. part A and 5 gal. part B)
150 – 200 lbs of PileMedic™ Epoxy Grout

SHELF LIFE

PileMedic™ UW GROUT should be stored in a cool, dry interior area. At no time should material be exposed to high moisture, rain, or snow conditions. When stored in the original, tightly closed container, the shelf life is one year from the date of manufacture.

STORAGE CONDITIONS

PileMedic™ UW Epoxy Grout should be stored in a dry environment between 50-95°F. Under these conditions, the shelf life is twelve (12) months in unopened, damage free containers.

CLEANING

All tools and equipment should be cleaned before the system gels. Use xylene or toluene when necessary or acceptable solvent.

APPLICATION

Surface Preparation: Surfaces must be clean and sound and free of any dirt, grease, loose coatings, rust, marine growth or any material that will impede the adhesion of the PileMedic™ UW Epoxy Grout to the substrate. Sandblasting and high pressure water blasting are preferred methods of preparation and removal of contaminants. When working in tidal or splash zones, coat

cleaned areas as soon as possible to minimize corrosion or contamination.

Mixing Instructions: Condition material above 75°F at time of mixing. Stir each component separately before blending. Thoroughly mix Part A with Part B for a minimum of three minutes with a low speed drill and mixing paddle or until a uniform gray color is achieved.

Epoxy Mortar/Grout: PileMedic™ UW Epoxy Grout can be mixed with clean dry silica aggregate to make a high strength epoxy grout. Adding 180 – 225 lbs. of clean dry silica aggregate to a 5 gallon unit (3 gal part A and 2 gal. part B) of the mixed epoxy resin will yield approximately 1.9-2.50 cu. ft. of epoxy mortar/grout. The aggregate should be slowly added to the thoroughly mixed epoxy resin and blended to a uniform desired consistency.

For Pumping Applications: Please consult the epoxy gradation chart to determine pumpability of a specific aggregate. The properly blended epoxy mortar/grout will have a uniform consistency without any segregation.

Application: PileMedic™ UW Epoxy Grout should be applied at water and surface temperatures of at least 55°F and rising. PileMedic™ UW Epoxy Grout must be mixed above water and transferred to the application with minimal agitation.

Coating: Apply the PileMedic™ UW Epoxy Grout by brush, or gloved hand in a thin primer coat, scrubbing it into the substrate displacing the water. Additional applications may follow to achieve the desired thickness.

Grouting/Patching: To assure proper adhesion, prime all surfaces that come in contact with PileMedic™ UW Epoxy Grout with neat PileMedic™ UW Epoxy Grout applied so as to displace the water. Once primed, place the mixed epoxy mortar/grout from the bottom and/or side of the form displacing water and proceed up. Finish the top surface with a trowel.

Anchor Bolt Grouting: Clean all debris from the hole to be grouted, fill half the hole from the bottom up with the PileMedic™ UW Epoxy Grout. Push the anchor bolt into the hole, twisting the bolt to make sure full contact is made.

LIMITATIONS AND PRECAUTIONS

- Use of solvents for thinning PileMedic™ Epoxy UW Grout will prevent proper cure.
- Product will not reach full adhesion or cure when applied at temperatures below 50°F.

PileMedic, LLC warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. PILEMEDIC, LLC SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.

- Danger! Causes severe eye and skin burns. May cause blindness. Harmful if swallowed. May cause allergic reaction. Do not handle or use until the Material Safety Data Sheet has been read and understood. Do not get into eyes, on skin or clothing. Use safety glasses with side shields and wear protective rubber or polyethylene gloves. Avoid breathing vapor or mist. Keep container closed. Use only in well ventilated locations. In case of contact, wash immediately with soap and water. Remove contaminated clothing and clean before reuse. Wash thoroughly after handling and before eating, drinking, or smoking. Use only potable water for mixing.
- Keep away from food and food containers.
- Avoid hazards by following all precautions found in the Material Safety Data Sheet (MSDS) product labels.

TYPICAL PROPERTIES

Mixing Ratio	2:1 by Volume
Mixed Viscosity	750-1250 cps
Gel Time	50 minutes
Color (mixed)	Gray

TYPICAL CURED PROPERTIES

Tensile Strength (ASTM D-638)	5100
Bond Strength: Type I	1800 psi
Type II	1650 psi
Tensile Elongation (ASTM D-638)	4-8%
Compressive Strength (ASTM D-695)	8500psi
Compressive Strength (mortar)(ASTM D-695) sand/epoxy	8500±500
Hardness Shore D (ASTM D-2240)	85-90