1. **DESCRIPTION:** UW GROUT is a flowable, high strength cementitious grout designed for underwater placement. UW GROUT requires only potable mixing water before use and exhibits resistance to washout of cement and fines, while resisting the blending of external water into the plastic grout.

2. **USES:** UW GROUT is formulated for underwater applications including underwater grouting, pier supports or repair, offshore rigging and repair or support of other underwater concrete structures.

3. **COMPOSITION AND MATERIAL:** UW GROUT is a proprietary formulation of cements, graded aggregates and chemical additives. It contains no added chlorides or calcium sulfates.

4. **COMPLIANCE:** UW GROUT meets requirements ASTM C1107 and Corps of Engineers Specification for Non-Shrink Grout, CRD-621.

5. **SURFACE PREPARATION:** All concrete surfaces should be clean, sound and free of surface scaling and any material which may interfere with bond.

6. **APPLICATION TECHNIQUES:** UW GROUT is factory proportioned and comes ready to use after mixing with potable water. A paddle type mortar mixer should be used for best results. Use 4.5 quarts of water per 50 lb bag to produce a flowable but not fluid grout. Add two thirds of the required water into the mixer, then add the powdered grout and mix partially. Add the remaining water and thoroughly mix the entire quantity for 2 - 3 minutes. Place in a continuous manner by pump or tremie. For placements where the clearance is greater than 2", UW GROUT may be extended with up to 20 lb of 3/8" pea gravel per 50 lb bag. No special curing is required for underwater applications. Air exposed surfaces should be cured according to ACI guidelines.

7. **CAUTIONS:** Do not mix more material than can be placed in 25 minutes. Do not retemper with additional water after the mix has begun to set. Do not aerate the mix.

8. **YIELD:** One 50 lb bag will yield approximately 0.43 cu. ft. of grout.

9. **CLEAN-UP INSTRUCTIONS:** Clean tools and equipment with water before the grout hardens. Hardened grout may require mechanical abrasion for removal.

10. **ENVIRONMENTAL and SAFETY PRECAUTIONS:** Industrial Use Only. Contains silica sand and IARC reports crystalline silica may cause cancer in humans. May cause delayed lung injury. Contains portland cement which is alkaline on contact with water. Irritating to eyes and skin. Avoid eye and skin contact. Do not breathe dust. In case of eye contact, flood eyes with copious amounts of water and call a physician. DO NOT RUB EYES. Wash skin thoroughly after handling and before smoking or eating. Use adequate ventilation. KEEP AWAY FROM CHILDREN AND ANIMALS. EMERGENCY RESPONSE PHONE NUMBER: (800) 321-7628 EUCLID OR (800) 424-9300 CHEMTREC.
11. **PACKAGING & STORAGE:** 50 lb poly-lined and DOT approved bags. Protect from moisture. Shelf life is one year in unopened bags and in protected storage. Freight class is 55.

12. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

    THE EUCLID CHEMICAL COMPANY
    19218 Redwood Road, Cleveland, OH 44110
    Phone: (216) 531-9222    Toll-free: (800) 321-7628
    Fax: (216) 531-9596
    www.euclidchemical.com

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