T E C H N I C A L D A T A

SpecPoxy UW Grout

High Performance/High Strength Underwater Epoxy Grout

GreenConscious

DESCRIPTION

SpecPoxy UW Grout is a three component, 100% solids, high strength, non shrink underwater epoxy grout. This blend of high strength epoxy resin and curing agent with a specially engineered blend of graded aggregate provides excellent flow in a uniform high strength epoxy matrix. Ideal for high strength grouting and anchoring applications. The low exotherm epoxy resin allows a long work time and deep pour capabilities.

FEATURES/BENEFITS

- **Special epoxy binder system specifically designed for underwater placements.**
- **Special aggregate allows high flow capability for limited access grout placement without segregation for pouring or pumping.**
- **Excellent volume stability for maximum bond and load transfer in applications subjected to dynamic loading.**
- **Fast-cure and high early strength for minimal down time**
- **High compressive, bond, and tensile strength for maximum durability in vibration applications**
- **Pre-measured proportions for easy installation**
- **High modulus of elasticity and impact resistance**
- **Superior abrasion/chemical resistance**

APPLICATION

Mixing Instructions: Air, material, and surface temperatures must be a minimum of 40°F prior to mixing or installation. To assist with mixing and dispensing, precondition material to 75°F. Mix one part of Part A and one part of Part B by volume for three minutes with a low speed heavy-duty drill and a Jiffy mixer in a separate 5 gal pail. Add the mixed epoxy to a mortar mixer for mixing larger units slowly adding Part C (aggregate) and mixing for an additional 2-3 minutes. Maximum yield is achieved by mixing in all the Part C aggregate. Always mix full complete units.
High Flow Applications: Reduce the amount of Part C aggregate up to 25% by weight to create a more fluid grout consistency for difficult high flow placements.

Surface Preparation: Surfaces to be grouted must be clean, and structurally sound. Remove all oil, grease, dirt, laitance, and any other foreign matter and profile the surface by sandblasting, mechanical abrasion removing any residue with pressure washer or an oil free compressed air.

Placing: The mixed grout should be poured continuously and in such a manner as to provide full and complete contact within the void or annulus to be filled. Strapping will facilitate moving the grout into position. Grout should be placed at a minimum of 1.0" thick up to a maximum of 18" thick per lift in a large mass. Full Part C aggregate extension must be used for large applications in excess of 6" deep. Anchor bolt holes should be dry and free of all dust and debris before grout placement.

CLEANING

Tools and Equipment: Uncured material can be removed with SpecChem Solvent 100, Orange Peel, or other approved solvent. Dispose of in accordance with local, state, and federal disposal regulations. Mechanical removal is necessary for cured material.

STANDARDS

Epoxy Grout: Material shall be a 100% solids, high flow/high strength Underwater epoxy grout specifically designed for underwater placement. Approved Product: SpecChem "SpecPoxy UW Grout.

USDA accepted for use in Food Processing applications

SHELF LIFE

Store SpecPoxy UW Grout in its original containers and keep tightly closed. Do not allow the accumulation of water, dirt, or other contaminants.
The shelf life of properly stored SpecPoxy UW Grout is two years from date of manufacture.

TYPICAL TEST RESULTS

Compressive Strength (ASTM C-579)	Full Extension	75% Extension
1 day	9,100 psi	9,025 psi
7 days	11,350 psi	11.150 psi
14 days	12,650 psi	12,375 psi
Compressive Modulus ASTM C 580	1,450,000 psi	1,400,000 psi
Linear Shrinkage ASTM C-531	Negligible	Negligible
Bond Strength (ASTM C-882) @ 14 days	2950 psi	2875 psi
Flexural Strength ASTM C 580	4250 psi	4025 psi
Tensile Strength ASTM C-307	2010 psi	2050 psi
Pot Life (75F)	2.0 hours	1.85 hours
Hardness (Shore D)	95	95
Coefficient of Thermal Expansion (max.) (ASTM C-531)	18.0 x 10-6 in/in/°F	19.5 x 10-6 in/in/°F

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PACKAGING

0.5 cubic foot unit

PART A	0..50 gal
PART B	0.50 gal
PART C	1-50 lb. bag

2.0 cubic foot unit

PART A	2 gal
PART B	2 gal
PART C	4– 50 lb. bags

LIMITATIONS

Always test a small amount of SpecPoxy UW Grout to verify that the product has been thoroughly mixed and will harden properly before proceeding. Do not thin with any solvent. Surface and air temperatures must be a minimum of 40°F for application. Recommended application temperature is 55F to 95F. Higher temperatures will shorten work time and could limit pour volumes. Deep application (over 6") require full Part C aggregate extension.
Protect from freezing.

PRECAUTIONS

Prolonged or repeated skin or eye contact may cause irritation. Use safety glasses and wear protective rubber gloves. If skin contact occurs, wash immediately with soap and water and seek medical help if needed. If eye contact occurs, flush immediately with water and seek medical help if needed. In case of ingestion, call a physician. Product is a sensitizer. Avoid breathing vapors.

INDUSTRIAL USE ONLY

Additional precautions, safety and first aid information are contained in the SDS (Safety Data Sheet).

WARRANTY

NOTICE-READ CAREFULLY
CONDITIONS OF SALE
SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.
WARRANTY LIMITATION
SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.
INHERENT RISK
Purchaser assumes all risk associated with the use or application of the product.

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