

# PERMAGROUT E

Epoxy Construction Material

## DESCRIPTION

PERMAGROUT E is a 100% solids, non-shrink, high strength epoxy construction material that is easily mixed for grouting at almost any consistency. When filled and mixed according to instructions, high physical properties are achieved, making PERMAGROUT E ideal for concrete repair prior to re-topping with another PERMATEC floor coating.

## FUNCTION

PERMAGROUT E is recommended for restoring damaged concrete floors, sumps, trenches, tank pedestals or sloping floors to drains. PERMAGROUT E is ideal as a grouting for the frames and baseplates of pumps, gear boxes, electric motors, anchor bolts, etc.

## FEATURES

PERMAGROUT E comes in pre-packaged units ready for use. It compensates for shrinkage in both the plastic and hardened states, and the fast cure cycle allows for minimal downtime and a quick repair. PERMAGROUT E possesses the same tenacious bonding characteristics and high physical properties as the PERMATEC floor toppings, making it excellent for substrate repair prior to re-topping with a PERMATEC floor. PERMAGROUT E has good chemical resistance for alkalines, salts and mild acids.

## PACKAGING AND COVERAGE

PERMAGROUT E is packaged in 1 and 5 gallon units. It's uses can vary from a resinous scratch coat to a highly filled silica mortar type mix for deep repairs. Please consult ChemProof Polymers for quantity and aggregate mix recommendations.

## TYPICAL PROPERTIES

Solids by volume	100%
Compressive Strength ASTM C579	10,000 psi
Flexural Strength ASTM D790	3,850 psi
Tensile Strength ASTM D307	1,700 psi
Bond Strength to Concrete ASTM D4541	Failure in Concrete

## MIXING

Prior to application, the PERMAGROUT E (Resin, Hardener, Pea Gravel and Silica) and the substrate should be between 65 and 90° F. A 5 gallon bucket mixer that provides a side and bottom scraping action is recommended for OPERMAGROUT E. It is advisable to mix the Resin (Part A) and the Hardener (Part B) together for 1 minute prior to the addition of silica or pea gravel. Add the desired amount of silica and pea gravel based on the thickness required and mix for another 60 seconds or until the aggregate is thoroughly wet and pour immediately on the floor.

**NOTE:** The aggregate must be dry before mixing. If the aggregate packs together when squeezed, it is wet and should not be used.

## APPLICATION

Depending on the pour thickness, screed raking or hand troweling will be required to achieve the desired placement. Within 10-15 minutes after the PERMAGROUT E has been applied, silica should be broadcast on the surface until it is saturated, and the excess removed after the material has set. This step produces a mechanical bonding mechanism that will enhance the bond of the final floor topping to the PERMAGROUT E.

## CLEAN-UP

All mixing and application equipment should be cleaned immediately after use. If this is done, soap and water or biodegradable cleaners can be used. If the material has begun to set, more aggressive solvents will be necessary. Before using solvents, refer to their respective SDS for handling considerations.

## USE TIME

Assuming a 1-inch fill, the PERMAGROUT E will be ready to coat in 3-4 hours with a substrate and ambient temperature of at least 75° F.

**NOTE:** The thicker the fill, the faster the material will set up. It is advisable to apply the final topping (PERMATEC 3000, 4000, 5000, etc.) within 24 hours of the application of the PERMAGROUT E.

## STORAGE and SHELF LIFE

PERMAGROUT E should be stored at 50-90° F in a dry area out of direct sunlight. All containers should remain unopened until ready for use. If stored as set out above, PERMAGROUT E has a minimum shelf life of one year.

## WHERE PERMAGROUT E SHOULD NOT BE INSTALLED

PERMAGROUT E should not be applied over substrates:

- subject to extreme hydrostatic pressure
- which are unsound
- which are contaminated and cannot be cleaned
- at temperatures below 60° F (Consult ChemProof Polymers)

## SAFETY

Read Safety Data Sheets (“SDS”) before using. PERMAGROUT E contains blended Epoxies as the resin and blended Amines as the hardener. Protective clothing and gloves are recommended to prevent sensitization to these materials. In case of ingestion or eye contact, it is advisable to contact a physician immediately. SDS are available for this product upon request.

## WARRANTY

ChemProof Polymers, Inc. warrants our products to be free of manufacturing defects in accord with applicable ChemProof quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by ChemProof Polymers, Inc. No other warranty or guarantee of any kind is made by ChemProof Polymers, expressed or implied, statutory, by operation of law or otherwise, including merchantability and fitness for a particular purpose.

The full product warranty is available at [www.chemproof.com](http://www.chemproof.com).

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