

GROUT IT (S)

Non-Shrink Grout

MANUFACTURER:

Empire Blended Products, Inc.
250 Hickory Lane • Bayville, NJ 08721
(732) 269-4949 • Fax (732) 269-0497
www.empireblended.com

PRODUCT DESCRIPTION:

GROUT IT (S) is a high strength, non-shrink, non-metallic cementitious grouting compound. This material's unique formula of Portland Cement, finely graded aggregates, shrinkage compensating materials and expansive cementitious binder allow it to maintain its strengths at various consistencies, from flowable to trowelable. *GROUT IT (S)* is designed for grouting machinery and structural supports which require non-shrink performance combined with high strength. Because of its unique non-bleeding and non-segregating characteristics at a fluid consistency, it is an ideal anchoring cement. *GROUT IT (S)* complies with Corps of Engineers CRD-C-621 and ASTM C-1107.

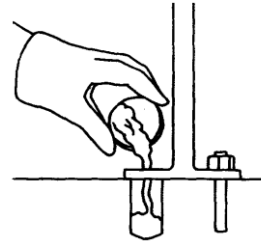
USES:

- ▶ Structural columns
- ▶ Machinery bases
- ▶ Bearing plates
- ▶ Anchoring bolts, posts and railings
- ▶ Powerline stanchions

ADVANTAGES:

- ▶ Sulphate-resistant
- ▶ One step grout, just add water
- ▶ Contains no chlorides, heavy metals or gypsum
- ▶ Usable from flowable to trowelable consistency
- ▶ Dimensionally stable, requiring no treatment at edges or open end
- ▶ Excellent flexural strength and vibration resistance
- ▶ Freeze-thaw resistance superior to concrete
- ▶ Watertight, resists salt, many chemicals and oils
- ▶ Pumpable and flowable

PATCHING/ANCHORING NON-SHRINK



INSTALLATION:

Surface Preparation:

All surfaces and contact surfaces must be structurally sound, clean and free of dust, dirt, oils, paints and all other contaminants that will prevent proper bond. Make certain all loose material is removed. Any metal that *GROUT IT (S)* will come in contact with must be de-rusted and free of all oil and grease. Maintain contact areas between 50°F and 80°F for proper performance. **CAUTION:** Acid based cleaning solutions must be neutralized. *GROUT IT (S)* is not recommended for featheredge patches. Area to be patched must be cut at right angles with the surrounding area. Thoroughly wet the area to be patched, then remove excess water from voids and holes. Construct forms where needed and caulk to prevent leakage.

Mixing:

GROUT IT (S) requires only the addition of water. No other additives should be used. Add water to a suitable mixing vessel. A mortar type mixer with rotating, rubber edged blades is recommended for larger applications and those at a lower flow. For smaller installations, hand mixing or drill mixing with a low speed, high torque drill (not to exceed 650 RPM) is acceptable. Add material to water and mix to a smooth, lump-free consistency, approximately 3 minutes, and install immediately after mixing. Mix enough material to permit continuous placement before any part of the *GROUT IT (S)* has set. A good consistency for most concrete repairs (plastic consistency) requires 8½ pints of water per 50 pounds of *GROUT IT (S)*. For a flowable grout, use 10 pints of water per 50 Lb bag and for a fluid grout use 10½ pints of water per 50Lb bag. A flowable consistency is recommended for anchoring bolts, posts or rails.

Placement:

GROUT IT (S) should be placed in accordance with standard grouting procedures and recommendations of ACI (American Concrete Institute). Place *GROUT IT (S)* quickly and continuously. It may be pumped, poured, troweled or hand packed. Use chains, rods or tamping tools to tightly compact grout, completely removing all air voids, and being careful to completely fill all of the space being grouted. Strike off exposed areas and after setting, cut back or finish *GROUT IT (S)* to final configuration. When anchoring bolts, posts or rails, crown *GROUT IT (S)* slightly with a trowel or putty knife as it stiffens to aid water runoff.

Curing:

Damp curing is recommended. Allow to cure for 72 hours before applying weight or stress.

Coverage:

One 50 pound bag of *GROUT IT (S)* will yield 0.45 cubic feet.

Packaging:

Available in 50 pound multiwall paper bags with moisture barrier.

Color:

Light gray

TECHNICAL DATA:

Set Time (ASTM C266)

	Initial	Final
Dry Pack	15 min	3 hrs.
Plastic	3 hrs.	5 hrs.
Flowable	3.5 hrs.	7 hrs.
Fluid	4 hrs.	7.5 hrs.

Compressive Strength (ASTM C109)

	1 Day	7 Days	28 Days
Dry Pack	3,500 psi	7,000 psi	10,000 psi
Plastic	3,100 psi	5,400 psi	7,400 psi
Flowable	2,900 psi	5,000 psi	6,900 psi
Fluid	2,800 psi	4,900 psi	6,800 psi

Tensile Splitting Strength (ASTM C496)

500 – 600 psi @ 28 Days

Flexural Splitting Strength (ASTM C293)

1,000 – 1,400 psi @ 28 Days

Bond Strength (ASTM C882)

1,800-2,000 psi @ 28 Days

Expansion % @ 28 Days (ASTM C1090/CRD C621)

Dry Pack	+ .06%
Plastic	+ .06%
Flowable	+ .055%
Fluid	+ .03%

LIMITATIONS:

Do not apply to frozen surfaces or if temperature will fall below 40°F within 24 hours.

CAUTION:

Contains Portland Cement CAS #65997-15-1. Freshly mixed cement products may cause skin injury. Avoid contact with skin where possible and wash exposed areas promptly with water. If any product gets into the eye, rinse immediately and repeatedly with water. If ingested, **do not** induce vomiting and get prompt medical attention. Also contains Sand CAS #14808-60-7. Avoid breathing dust. Prolonged exposure to dust may cause delayed lung injury (silicosis) or cancer IARC Class 2A. Wear NIOSH approved mask for silica dust. **Keep Out Of Reach Of Children.**

WARRANTY:

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either Empire Blended Products or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.