



# TECHNICAL DATA SHEET

## POLYGROUT

### High Performance Epoxy Grout

03600

GROUT  
CONCRETE

TAMMS INDUSTRIES  
MARCH 2002 (Replaces 1/00)

TAMMS INDUSTRIES  
MARCH 2002 (Replaces 1/00)

GROUT  
CONCRETE

03600

- DESCRIPTION:** POLYGROUT is a three component, 100% solids, high strength, epoxy grouting system. The aggregate portion of the grout has been formulated with an additive that greatly reduces dust, making it safer and easier to use than other grouts on the market. POLYGROUT provides excellent bearing, good flow and high early strength. POLYGROUT, which comes ready to mix in a proportioned kit, offers good chemical resistance to a wide variety of chemicals including oils, fuels, acids, caustics and solvents.
- USES:** POLYGROUT is used to grout heavy equipment, compressors and bearing plates, rail supports, pumps, ball mills and pipe supports.
- COMPOSITION AND MATERIAL PROPERTIES:**

Material Properties @ 75°F (25°C)	
Color	gray
Gel Time, 100 grams neat resin	35-45 minutes
Mix Ratio by weight, pounds A:B:C	15.5:2.1:110
<b>ASTM C579</b> Compressive Strength, psi	
24 hours	9,000 - 11,000
7 days	15,000 - 17,000
Impact strength	Better than concrete
<b>ASTM D638</b> Tensile Strength, neat resin, psi	5,600
<b>ASTM C307</b> Tensile Strength, psi	2,200
<b>ASTM C580</b> Flexural Strength, psi	4,250
<b>ASTM D2566</b> Linear Shrinkage, inches	0.0007
<b>ASTM D696</b> Coefficient of Linear Thermal Expansion	
75 - 140 degrees F, in/ in/ F	27 x 10 <sup>-6</sup>
Bond to concrete	Stronger than concrete
Values are typical and not necessarily referenced to create specifications.	

- SURFACE PREPARATION:** Concrete must be structurally sound, dry, free of grease, oils, coatings, dust, curing compounds and other contaminants. Surface laitance must be removed by chipping, sandblasting or other appropriate mechanical methods. Steel must be free of oils, greases, dirt, old coatings or chemical contaminants. Surfaces should be blasted to a white metal finish using clean dry aggregate. Any areas where bond is **not** desired should be treated with an appropriate "release" agent (wax, polyethylene), prior to placing POLYGROUT.

- MIXING INSTRUCTIONS:** Condition the materials for at least 24 hours at 65 - 75°F prior to mixing. Premix Part A (base) and Part B (hardener). Combine Part A and Part B in a clean container and mix thoroughly with a slow speed motor and "jiffy" mixer. Scrape the sides and the bottom while mixing. Do not aerate the mix. Pour the mixed liquid components into a clean, dry mortar mixer while the blade is moving. Gradually add the pre measured bags of aggregate to the mixer. Mix until the aggregate is "wet out" and free of lumps. Do not over mix as over mixing will cause air entrapment. Do not mix partial units.
- APPLICATION TECHNIQUES:** POLYGROUT is a flowable material. All forms must be liquid tight and strong enough to withstand head pressure during placement. Prepare formwork to maintain a 2 inch liquid head to facilitate placement. During placement, seal any leaks in the form immediately. Provide for expansion or control joints as necessary. It is recommended that the work area be kept shaded from sunlight on hot days for 24 hours prior to placement and for 48 hours after placement. Ideal placement temperatures range from 60 to 90°F. POLYGROUT should be poured from only one side of a base plate to avoid air entrapment. Placement should be a continuous manner to avoid cold joints and voids. Rods, plungers or chains may be used to aid in the consolidation of the grout. Maximum depth of grout is 4 inches per lift. Subsequent lifts should be applied after initial set but within 2 hours of the prior lift. All finishing, troweling or screeding should be completed prior to initial set. Forms should remain in place for at least 24 hours after placement.
- COVERAGE:** One POLYGROUT kit yields approximately 1 cubic foot of grout.
- CLEAN-UP INSTRUCTIONS:** Clean tools and equipment immediately following use with methyl ethyl ketone or Xylene. Clean drips and overspray while still wet with the same solvent. Dried POLYGROUT will require mechanical abrasion for removal.
- CAUTIONS:** Do not mix or apply POLYGROUT if the temperature is below 60°F or above 90°F. Low early and ultimate strengths may result for placements below 60°F. Condition the resins/aggregate at 65-75°F for 24 hours, when using at lower temperatures. Do not aerate materials during mixing. Do not mix partial units. The performance of POLYGROUT may be adversely affect-

ed if concrete is not cured a minimum of 28 days. Minimum grout depth is 1 inch. Maximum depth per lift is 4 inches. For proper seating, the grout should rise above the bottom of the base plate.

**10. PACKAGING & STORAGE:** A one cubic foot unit consists of

Part A (base)	15.5 pounds in a 2 gallon container
Part B (hardener)	2.1 pounds in a 1/2 gallon container
Part C (aggregate)	110 pounds in two 55 pound bags

Store at between 50 and 90°F. Protect from moisture. The shelf life of POLYGROUT is 2 years in unopened containers and in protected storage. The freight class for POLYGROUT is 60.

**11. ENVIRONMENTAL AND SAFETY PRECAUTIONS: Industrial Use Only. Component A** contains epoxy resin. Vapor can cause respiratory irritation. Contact may cause skin or eye irritation. Can cause sensitization after prolonged or repeated exposure. Use safety goggles and chemical resistant gloves. Use only with adequate ventilation. **Component B is CORROSIVE and contains amines.** Contact with eyes and skin may cause severe burns. Can cause sensitization after prolonged or repeated use. Use of safety goggle and chemical resistant gloves is highly recommended. Use only with adequate ventilation. **First Aid:** In case of skin contact, wash immediately and thoroughly with soap and water. For eye contact, flush immediately with water for 15 minutes and consult a physician immediately. For respiratory problems, remove person immediately to fresh air. **Disposal:** Collect with absorbent material. Dispose of in accordance with current local, state and federal regulations. READ MATERIAL SAFETY DATA SHEET BEFORE USING. MATERIAL IS FOR INDUSTRIAL USE ONLY. **KEEP AWAY FROM CHILDREN AND ANIMALS.** EMERGENCY RESPONSE PHONE NUMBER: (800) 862-2667 TAMMS OR (800) 424-9300 CHEMTREC.

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

TAMMS INDUSTRIES  
3835 State Route 72, Kirkland, IL 60146  
800-862-2667 FAX: 815-522-2323  
www.tamms.com

**WARRANTIES:** Seller warrants that the Products do not infringe upon any copyright, patent, or trademark or trade secret, nor violate the proprietary information rights of any third party. Seller warrants that its Products will conform to and perform in accordance with the Products' specifications. **THE FOREGOING WARRANTIES, ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. LIMITATION ON LIABILITIES:** Because of the difficulty of ascertaining and measuring damages hereunder, it is agreed that, except for claims for bodily injury. Seller's liability to the Buyer or any third party, for any losses or damages, whether direct or otherwise, arising out of the purchase of Product from Seller by Buyer shall not exceed the total amount billed and billable to the Buyer for the Product hereunder. **IN NO EVENT WILL SELLER BE LIABLE FOR ANY LOSS OF PROFITS OR OTHER SPECIAL OR CONSEQUENTIAL DAMAGES, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**