

DESCRIPTION:

GANTREX Epoxy Grout is a self-leveling, readily pourable, 100% solids epoxy grout consisting of epoxy resin, hardener and carefully graded aggregate.

ADVANTAGES:

- High early strengths
- Aggregate content can be field-modified
- Low resin crystallization temperature
- Excellent flow characteristics
- Possible to clean tools/equipment with water/soap solution, prior to set
- Available in economic 3 cubic foot units for high volume applications
- User friendly packaging

APPLICATIONS:

GANTREX Epoxy Grout may be used where a pourable, non-shrink, chemical-resistant, high-strength grout is required. Typical applications include ports, shipyards, crushers, pulp and paper machinery, compressors and refinery equipment.

SURFACE PREPARATION AND FORMING:

All concrete surfaces must be sound, dry, free of all oil, dirt, grease, laitance and other foreign matter. Prepare the surface to be grouted by mechanical means to remove all contaminants and weak surface material. All surfaces should be dry prior to grouting. Wood or metal forms may be used. Forms must be leak free. The contact surfaces of the forms should be coated with two coats of common paste wax to prevent bonding. Exercise care to ensure that the paste wax does not contaminate any surface that requires bonding. Control joints vary by application - consult your GANTREX representative.

MIXING AND PLACING:

Condition all grout components to 70°F (21°C), prior to mixing.

For the 1cf unit (28.3 liter), add the hardener (Part "B") to the base resin (Part "A"). Mix the combined resin and hardener using a low speed paddle mixer for two to three minutes. Pour the thoroughly mixed resin and hardener into a clean mortar mixer and add the aggregate while it is in motion. Mix for approximately one additional minute ensuring that all the aggregate is thoroughly wetted. When using a mortar mixer, mix three 1 cf units at the same time. For quantities less than three cubic feet, use a galvanized 25 gallon, flat bottomed can or pail.

MIXING AND PLACING (cont'd):

For the 3cf unit (84.9 liter), place the resin (Part "A") into a clean mortar mixer and add the hardener (Part "B"), while the mixer is in motion. Mix for two to three minutes. Add the aggregate while the mixer is in motion. Mix for approximately two additional minutes ensuring that all the aggregate is thoroughly wetted. Do not over-mix.

All grout should be placed within 30 minutes.

It is important that grout be poured only from one side of the soleplate (or base plate) to avoid air entrapment under the plate. If for any reason this is not possible, please consult GANTREX for air relief hole locations.

Consult your GANTREX representative when either a plastic mix or a high flow mix is required. (Do not alter the mix proportions without consulting GANTREX)

PRECAUTIONS:

- Gantrex epoxy grout must be placed on dry surfaces only.
- Avoid exposure to water for 24 hrs after placement.
- Do not reduce the aggregate content without consulting Gantrex.

The minimum temperature required for curing Epoxy Grout is 50°F (10°C). For pours at temperatures lower than 50°F or higher than 105°F (40°C) and/or depths greater than 4" (100mm), please consult GANTREX.

CLEAN UP:

Clean all tools, equipment and spills with a water/soap solution, prior to set. Dispose of all containers and packaging in accordance with local rules and regulations. For mortar mixer clean up, please consult GANTREX.

SHELF LIFE:

Shelf life of GANTREX Epoxy Grout is 2 years if liquid containers are hermetically sealed and stored in normal heated warehouse conditions.

CAUTION:

In case of skin contact, scrub affected area thoroughly with soap and water. In case of eye contact, flush with water for 15 minutes and immediately consult your local physician. Use eye goggles and rubber gloves while working with epoxy grout. Avoid inhaling fumes. Provide adequate ventilation. **Do not smoke** while working with epoxy grout. Read product material safety data sheets before using product.

FREIGHT CLASSIFICATION:

Part B Hardener only - Corrosive liquids, basic,organic, n.o.s. (Triethylenetetramine, Tetraethylenepentamine) Class 8, UN3267, P.G. II.

WARRANTY:

The information and recommendations made are based on GANTREX research and are believed to be accurate. However, no guarantee of their accuracy is offered since GANTREX cannot cover every possible application of its products, nor anticipate every variation encountered in masonry surfaces, job conditions, and methods used. The purchasers shall perform their own tests to determine the suitability of such products for a particular purpose.

GANTREX K3 EPOXY GROUT

WARRANTY (cont'd):

GANTREX warrants this product to be free from defects. GANTREX makes no other warranties with respect to this product, express or implied, including without limitation, the implied warranties of merchantability or fitness for particular purpose. GANTREX's liability shall be limited in all events to supplying sufficient product to re-treat and/or repair the specific areas to which defective product has been applied. GANTREX shall have no other liability, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of GANTREX, its distributors or dealers.

PHYSICAL PROPERTIES based on testing at full load, in controlled laboratory conditions* Unconfined Compressive Strength (ASTM C579-B)

Cure Time	Curing Temperature	psi (MPa)
1 day	104°F (40°C)	14,535 (100)
3 days		14,815 (102)
7 days		15,065 (104)
28 days		15,895 (109)
1 day	70°F (21°C)	11,490 (79)
3 days		13,275 (91)
7 days		13,900 (96)
28 days		14,400 (99)
1 day	50°F (10°C)	1,785 (12)
3 days		10,340 (71)
7 days		12,685 (87)
28 days		13,835 (95)
3 days	39°F (4°C)	5,750 (40)
7 days		10,875 (75)
28 days		12,915 (89)

*MPa values rounded off (for all test data) (145 psi = 1 MPa)

- **Tensile Strength** (ASTM C307)
7 days 2,262 psi (15 MPa)
- **Flexural Strength** (ASTM C580)
7 days 4,265 psi (29 MPa)
- **Modulus of Elasticity** (ASTM C580)
7 days 2,110,000 psi (14,500 MPa)
- **Coefficient of Thermal Expansion** (ASTM C531)
13.1 x 10⁶ in/in per °F (23.6 x 10⁶ mm/mm per °C)
- **Linear Shrinkage** (ASTM C531)
28 days 0.017 %
- **Creep** (ASTM C1181-91)
Loading: 2500 psi (14MPa) @ 80°F (27°C)
1 year less than 0.3%
- **Bond to concrete** Greater than tensile strength of concrete.
- **Control Joints** Varies by application, please consult your GANTREX representative.

Note: * The above data is representative and does not imply that the numbers are minimum values. Test results of samples obtained in the field may vary greatly based on sampling procedure, site conditions, ground and plate temperature, product temperature, air temperature, product placement and aggregate loading. Please consult Gantrex for sample collection procedure and any other questions in this regard.

GANTREX K3 EPOXY GROUT



ONE CUBIC FT UNIT



THREE CUBIC FT UNIT

YIELD AND NET WEIGHTS:

One cubic ft unit (28.3 liters)

Part "A" Resin	1.62 U.S. gallons (6.1 liters)	15 lbs (6.8 kg) Net weight
Part "B" Hardener	0.35 U.S. gallon (1.3 liters)	3.0 lbs (1.36 kg) Net weight
Aggregate	2-55 lb (25 kg) bags of aggregate	110 lbs (50 kg) Net weight
Total Net Weight:	128 lbs (58 kg), per unit	

Three cubic ft unit (84.9 liters)

Part "A" Resin	4.86 U.S. gallons (18.3 liters)	45 lbs (21.8 kg) Net weight
Part "B" Hardener	1.05 U.S. gallons (3.9 liters)	9 lbs (4.1 kg) Net weight
Aggregate	6-55 lb (25 kg) bags of aggregate	330 lbs (150 kg) Net weight
Total Net Weight:	384 lbs (174 kg), per unit	

For clarification on any of the previous instructions, or for more comprehensive installation instructions, consult GANTREX. GANTREX reserves the right to discontinue or change specifications at any time without prior notice and without incurring any obligations whatsoever.



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