

DESCRIPTION:

Gantrex Non-Shrink grout is a pre-blended, ready-to-use cement base grout containing non-ferrous fluidifiers and anti-shrinkage compounds accurately blended with graded siliceous aggregate and Portland cement. It is pre-blended and requires only the addition of water at the job site.

WHERE TO USE:

Gantrex Non-Shrink grout is used for grouting structural steel column base plates, anchor bolts, bridge bearing seats, machinery bases and reinforced masonry walls.

BENEFITS:

- Can be placed in different consistencies ranging from plastic to self-leveling
- Flowability facilitates placement in confined areas.
- Complete bearing surface contact ensures uniform load distribution
- No ferrous additives to cause staining.
- Expansive agents ensure uniform, consistent expansion for over one hour
- Excellent freeze-thaw resistance, even if pourable consistency
- Does not contain corrosive additives, such as calcium chloride
- Resistant to oil, some chemicals and moisture

PROPERTIES:

Compressive Strength (ASTM C109-77, 2" cubes confined) @ 68° F (20° C)
Flowable*

1 day.....	5,800 psi / 40 Mpa
3 days.....	7,395 psi / 51 Mpa
7 days.....	8,700 psi / 60 Mpa
28 days.....	9,280 psi / 64 Mpa
90 days.....	10,730 psi / 74 Mpa

*150% flow (ASTM C230-90) 1.06 U.S. gal / 55lb. (4.0L/25 kg.).

Pull Out Tests Mix Ratio 1.06 U.S. gal/55lb (4.0L/25 kg.) Test conducted using a 0.59 in/15mm (grade 400) for epoxy coated rebar.

Hole Depth	Hole Diameter	Load Failure
4.89" 125mm	1.48" 38mm	20 Kips - 89.5 kn
7.41" 190mm	1.48" 38mm	27.5 " 122.4 kn
9.75" 250mm	1.48" 38mm	31.5 " 139.8 kn

Set Time	6 hrs 10 min.
@ 70°F (21° C)	0.9 in./ 10mm Penetration

The above information is representative of actual production runs. Independent test results may vary from the above by approximately +/- 10%.

GANTREX NON-SHRINK GROUT (PRE-MIX)

APPLICATION SURFACE PREPARATION:

All surfaces that will be in contact with the grout must be clean and free of grease, oil standing water, laitance, loose material or any other contaminant that could impair substrate bond. Prior to grouting, foundation concrete should be roughened, cleaned and thoroughly wetted down for 12 hours. Free standing water should be blown clear just prior to grouting using oil free compressed air.

Forms must be rigid and water tight. Construct them with sides one to two inches above the base plate allowing a "head" of grout to flow to the proper level. Vent high points to permit the escape of entrapped air. Grout must be placed from one side only and allowed to flow to opposite form. Use only a minimum amount of water, consistent with flowability required. Do not exceed 1.06 gal of water per 25kg bag of grout (4.0L 25kg. bag). Mix thoroughly and place within an hour of mixing. Keep grout agitated in mixer at all times. As the grout sets, cure exposed surfaces with Gantrex Acrylic Cure & Seal or damp burlap.

Ideal grouting temperature is 50 – 77° F (10° C to 25° C)

Cooler temperatures will retard the rate of strength gain in all mixes. Keep surrounding concrete and contact steel above 40° F (4.5° C) for at least 72 hours after completion of grout pour.

MIXING AND PLACING:

Gantrex Non-Shrink grout may be pumped or poured in place. In all cases, no foreign materials are to be added without first contacting your Gantrex technical representative. The following is to be used as a guide.

Always use the minimum water required. Flowable 1.06 U.S. gal / 55lb. (4.0L/25kg.).

Non Shrink Concrete Mix

110lb (50kg) Gantrex Non Shrink grout

55lb (25kg) 3/8" (10mm) Pea Gravel

1.85-2.1 U.S. gal water (7-8 L) (depending on consistency required)

LIMITATIONS:

- Do not use in areas of high vibration
- Where chemical attach is possible

COVERAGE:

0.47 ft³ 1.06 gal per 55lb bag (13.3L /25 kg) (at the maximum 1.06 U.S. gal w. (4L) water content.

STANDARDS:

Formulated to comply with U.S Corps Of Engineers ASTM C1107-91 and CRD-C621-92

PACKAGING:

55lb (25 kg.) multi-wall bag.

STORAGE:

May be stored short term anywhere under tarp on pallets as long as the product is kept dry. Dry heated warehouse storage is recommended for extended storage.

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SHELF LIFE:

One year from the date of manufacture when stored in original, unopened package and under normal warehouse conditions.

SAFETY PRECAUTIONS:

Consult Material Safety Data Sheet (MSDS) for specific instructions.

WARRANTY:

The recommendations made and the information herein is based on our own and independent laboratory experiences, and is believed to be accurate under controlled conditions. However, no warranty or guarantee of accuracy is made because we cannot cover every possible application of product nor anticipate every variation encountered in weather conditions, job conditions, methods used and types of surfaces on which the product is applied. The users shall make their own tests to determine the suitability of such products for any particular purpose.

Gantrex makes no warranties with respect to this product, expressed or implied, without limitation, the implied warranties of merchantability or fitness for a particular purpose.

Gantrex 's liability shall be limited in all events to supplying sufficient product to re treat and or repair the specific area to which Gantrex product has been applied. Gantrex reserves the right to have the true cause of any difficulty determined by accepted test methods. Gantrex shall have no other liability, including liability for incidental, consequential or resultant damages, however caused, whether due to breach of warranty, negligence, or strict liability.

THIS WARRANTY MAY NOT BE MODIFIED OR EXTENDED BY REPRESENTATIVES OF GANTREX OR ITS DISTRIBUTORS OR DEALERS.



TOLL FREE: 800 2 GANTREX (800) 242-6873

Web site: www.gantrex.com • Email: sales@gantrex.com

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