



A Member of The Gantry Group

CPD® Non-Shrink Cement Grout Pre-Mix

DESCRIPTION

Gantrex Provides CPD® Non-Shrink Grout Premix, a pre-blended, ready-to-use cement based grout premix containing non-ferrous fluidifiers and anti-shrinkage compounds accurately blended with graded siliceous aggregate and Portland cement. Because it's pre-blended, the mix 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 per ASTM C109-77, using 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 per ASTM C230-9, based on 1.06 gallon water/55LB (4.0L/25 Kg) mix.

Pull Out Tests Mix Ratio: 1.06 gallons water/55LB (4.0L/25 Kg) mix

Test conducted using a 0.59 in (15mm), Grade 400 epoxy coated rebar.

Hole Depth	Hole Diameter	Load Failure	Set Time @70° F (21°C)
4.89" (125mm)	1.48" (38mm)	20.0 Kips (89.5 Kn)	6 hours 10 min. 0.9 in./10 mm penetration
7.41" (190mm)	1.48" (38mm)	27.5 Kips (122.4 Kn)	
9.75" (250mm)	1.48" (38mm)	31.5 Kips (139.8 Kn)	

The above information is representative of actual production runs. Independent test results and job site conditions may vary.

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 moistened for 12 hours. Free standing water should be blown clear prior to grouting with oil-free compressed air.

Forms must be rigid and watertight. Sides should be 1 to 2 inches above the soleplate to allow a "head" of grout flow to the proper level. Vent high points to allow the escape of trapped air. Grout must be placed from one side only to allow flow to the opposite form. Use the minimum amount of water as possible, consistent with desired flowability.

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Do not exceed 1.06 gallons per 55 lb. bag of mix. Mix thoroughly and place within 1 hour. Keep grout in the mixer agitated at all times. As the grout sets, cure the exposed surfaces with Acrylic Cure & Seal or with damp burlap.

The ideal ambient temperature for pouring cement grout is 50°F - 77°F (10°C - 25°C). Cooler temperatures may retard the rate of strength gain for all mixes. Keep surrounding concrete and steel above 40°F (4.5°C) for at least 72 hours after completing the pour.

MIXING & PLACING

Non-Shrink Cement Grout may be pumped or poured in place. No foreign materials are to be added without first contacting GANTREX.

CAUTIONS

Do not use this cement grout premix in areas of high vibration. Do not install this grout in areas of possible chemical attack. Consult GANTREX about using Epoxy Grout instead.

COVERAGE/YIELD

0.47 ft³ based on 1.06 gallons per 55 LB bag mix.

STANDARDS

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

PACKAGING/STORAGE & SHELF LIFE

Non-Shrink Grout Premix is provided in 55 LB (25 KG) multi-wall bags. It may be stored short term anywhere under a tarp on pallets, as long as the product is kept dry. A dry, heated warehouse is recommended for longer term storage. Shelf life is 1 year from the date of manufacture, when stored in the original, unopened packages as per above.

SAFETY PRECAUTIONS

Request MSDS Sheets from GANTREX for specific instructions.

WARRANTY

The recommendations made and the information herein are based on our own and independent laboratory tests under controlled conditions, and are presumed to be accurate. However, no guarantee of accuracy is offered since Gantrex cannot cover every possible use and application of its products, nor anticipate every variation encountered in masonry surfaces, weather conditions, site conditions or methods of installation used. The users shall perform their own tests to determine the suitability of such products for a particular purpose.

GANTREX warrants this product to be free from defects. GANTREX makes no other warranties with respect to this product, either expressed or implied, including without limitation, the implied warranties of merchantability or fitness for particular purpose. GANTREX 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 ANY GANTREX REPRESENTATIVES, DEALERS OR DISTRIBUTORS

Contact GANTREX for a copy of the article, "Effective Methods for Mounting Crane Rail Systems on Concrete Foundations"



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