



MULTI-PURPOSE GROUT

HIGH FLOW, HIGH STRENGTH, NON-SHRINK GROUT

◆ DESCRIPTION

MULTI-PURPOSE GROUT is a blend of portland cements, admixtures, and proprietary aggregates. This material is designed to provide high flexural and compressive strength performance from damp pack to fluid consistencies. MULTI-PURPOSE GROUT has been specifically formulated to exceed the requirements of ASTM C-1107, Corp of Engineers CRD C-621, Class B, and AASHTO T-260. MULTI-PURPOSE GROUT is non-metallic, contains no chlorides or aluminum powders, and is non-gas forming.

◆ USES

MULTI-PURPOSE GROUT is suited for a wide variety of precision applications that include:

- Precise grouting requirements of machinery bases, compressors, punch presses, precast columns, steel columns, crane rails, and guard rails
- Anchor bolts, reinforcing, dowels, and rods
- Pumping applications
- Grouting of structural and non-structural building members
- Applications requiring high compressive strengths as early as one day

◆ BENEFITS

- Versatile-suitable for damp pack, plastic, through fluid consistencies
- Consistent-strict quality control testing & standards
- Strength- attains high compressive strengths at specified water ratios
- Security-maximum uniform bearing support
- Performance-joins, supports, and anchors
- Will not bleed or segregate

◆ PACKAGING

50lb Bag (22.7kg)

◆ YIELD

.43 cu ft / 50 lb bag (0.012 cu m / 22.7 kg bag) when mixed with 4 quarts of water

◆ PHYSICAL PROPERTIES

Compressive Strength (ASTM C-109*)

SET	1DAY	3 DAYS	7 DAYS	28 DAYS
PLASTIC ¹	5,600 psi 38.58 MPa	8,600 psi 59.25 MPa	10,400 psi 71.65 MPa	13,400 psi 92.33 MPa
FLOWABLE ²	4,400 psi 30.32 MPa	7,800 psi 55.07 MPa	10,600 psi 73.03 MPa	12,500 psi 86.13 MPa
FLUID ³	2,900 psi 19.98 MPa	5,400 psi 37.21 MPa	7,200 psi 49.51 MPa	9,400 psi 64.77 MPa

*Notes: 73°F (22.8°C)

55% Humidity

¹ = 3.5 qts

² = 4 qts

³ = 4.5 qts

Rate of Set (ASTM C-266*)

SET	INITIAL	FINAL
PLASTIC ¹	:45	2:20
FLOWABLE ²	:58	3:20
FLUID ³	1:30	4:06

*Notes:

¹ - 100-125% flow table (ASTM C-230, 5 drops in 3 seconds)

² - 125-145% flow table (ASTM C-230, 5 drops in 3 seconds)

³ - 28 second flow cone method (ASTM C-939)

Height Change - Moisture Cure Hardened (ASTM C-1090)

AGE	% HEIGHT CHANGE
1 DAY	+0.01
3 DAYS	+0.03
7 DAYS	+0.05
28 DAYS	+0.05

Flexural Strength (ASTM C-78)

AGE	FLEXURAL STRENGTH
3 DAYS	700 psi (4.82 MPa)
7 DAYS	730 psi (5.03 MPa)
28 DAYS	1,130 psi (7.78 MPa)

Bond Strength (ASTM C-882*)

AGE	APPLIED LOAD	SHEAR BOND STRENGTH
7	24,700	1,750 psi (12.06 MPa)

*Notes: 100% of rupture occurred in dummy section



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◆ SURFACE PREPARATION

All surfaces in contact with MULTI-PURPOSE GROUT shall be free of dirt, oil, grease, laitance, and other contaminants. All unsound concrete should be removed to assure a good bond. The area to be grouted must be saturated for 24 hours before placement. Remove any standing water prior to placing grout. Maintain contact areas between 45°F (7°C) and 90°F (32°C) prior to grouting and during initial curing period. For hot and cold weather grouting applications, refer to ACI 305 Hot Weather Conditions or ACI 306 Cold Weather Conditions.

◆ MIXING

For best results, use a mechanical mixer. Pre-wet mixer and empty excess water. Place cool, clean potable water in mixer, then add dry grout to reach required consistency. Mix for a total of 5 minutes to achieve desired consistency. Mix only enough grout that can be placed within working time.

Water Requirements

DESIRED MIX	WATER / 50 lb BAG
Plastic	3.5 quarts
Flowable	4 quarts
Fluid	4.5 quarts

For placements greater than 3" in depth, MULTI-PURPOSE GROUT must be extended by up to 50%, by weight, with clean, washed, and dry 3/8" (1cm) pea gravel.

◆ PLACING

MULTI-PURPOSE GROUT can be placed by pumping, pouring, rodding, or strapping. Mechanical vibration may cause segregation of aggregates. Place grout on one side, flowing to opposite and adjacent sides to avoid entrapment of air and uneven bearing of the grouted surface. When necessary, provide vent holes. Grout should continue to be placed until it protrudes from the entire perimeter area. Grout "head" and excess grout may be removed after initial set. Do not apply over surfaces that are frozen or contain frost.

◆ FINISHING & CURING

Do not disturb formwork or grout for 24 hours. Use wet rags or burlap to cure for 6 hours after placement. Exposed surfaces should be cured with a membrane forming curing compound such as UNITEX HYDRO SEAL. For best results, grout "head" should extend downward at a 45° angle from edge of base.

◆ STORAGE

Normal cement storage and handling practices should be observed. Grouting should be done using established concreting procedures according to American Concrete Institute recommendations. Read and follow application information, precautions, and Material Safety Data Sheet.

◆ CAUTION

Contains portland cement (CAS# 65991-15-1). Do not allow contact with eyes or skin. Contains concrete aggregates, sand/gravel (CAS# 14808-60-7). Avoid breathing dust. Respirable silica may cause serious lung problems. There is limited evidence silica is a carcinogen. The use of gloves, goggles, and where appropriate, dust masks and other protective clothing is recommended.

Disclaimer of Warranties: Neither manufacturer nor seller have any knowledge or control concerning the purchaser's use of the product. No expressed warranty is made by manufacturer or seller with respect to the results of any use of the product or container that the product comes in. No implied warranties including, but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose are made with respect to the product. Neither manufacturer nor seller assume any liability for personal injury, loss or damage resulting from the use of the product. In the event that the product shall prove defective, buyer's exclusive remedy shall be as follows: Seller or manufacturer shall, upon request of buyer, replace any quantity of the product which is proven to be defective or shall, at its option, refund the purchase price of the product upon return of the product. Manufacturer shall not be responsible for use of this product in a manner to infringe on any patent held by others.

Contact UNITEX Technical Services for further information or installation instructions.



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