



# FARRELL NON-SHRINK GROUT

## Product Data Sheet

### CONSTRUCTION-GRADE GROUT

#### DESCRIPTION

FARRELL NON-SHRINK GROUT is a non-ferrous, nongaseous, non-shrink economical grout. It was specifically developed as a high strength, cost-effective, general-purpose grout for use across a broad range of large and small construction projects. FARRELL NON-SHRINK GROUT is nongaseous, will not rust and contains no added chlorides or gypsum. It is furnished pre-mixed and ready-to-use. FARRELL NON-SHRINK GROUT may be extended for deep grouting with pea gravel for greater yield and increased economy.

#### USES

FARRELL NON-SHRINK GROUT is very versatile and may be used for either interior or exterior applications. FARRELL NON-SHRINK GROUT is designed for base plate grouting, anchoring, precast wall panels and bridge seats.

#### SPECIFICATIONS

ASTM C 1107, Grade A, B & C  
Corps of Engineers Spec. CRD-C-621

#### PACKAGING

50 lb. (22.7 kg) Poly-Lined Bags

#### YIELD

0.43 ft.<sup>3</sup> (0.012 m<sup>3</sup>) per 50 lb. (22.7 kg) bag.

#### FEATURES/BENEFITS

Furnished premixed "ready-to-use"... just add water. Provides a high strength, non-ferrous, non-shrink grout for a broad range of general construction projects. Offers the strength and characteristics required for cost-effective, general-purpose grouting. Cost reductions are realized when extended with pea gravel for deep grouting. Requires no separate bonding agent. No site batching required for consistent results. Chloride-free.

**FARRELL NON-SHRINK GROUT**

#### TECHNICAL DATA \*

Consistency (per ASTM C 827-95A)	Plastic	Flowable
Mix Ratio (per 50 lbs.)	6.25 pints	6.75 pints
Flow (per ASTM C 230-90)	100%	130%
Set Time (per C 191-92, Initial)	4-6 hours	5-7 hours
Compressive Strength (per ASTM C 109-93)		
At 1 day	4100 psi (28.2 MPa)	3600 psi (24.8 MPa)
At 3 days	6500 psi (44.8 MPa)	5800 psi (40.0 MPa)
At 7 days	8000 psi (55.2 MPa)	7600 psi (53.4 MPa)
At 28 days	9600 psi (66.2 MPa)	9200 psi (63.4 MPa)

\*All technical data is typical information, but may vary due to testing methods, conditions and procedures.

### Farrell Equipment & Supply Co., Inc.

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#### EAU CLAIRE

715-835-4334  
800-533-0909  
Fax: 715-835-4356  
1510 N. Hastings Way  
Eau Claire, WI 54703

#### APPLETON

920-903-1985  
Fax: 920-903-8278  
1002 Truman Street  
Kimberly, WI 54136

#### LA CROSSE

608-796-9300  
888-533-0909  
Fax: 608-796-9435  
508 Monitor Street  
La Crosse, WI 54603

#### MADISON

608-222-5372  
888-533-7909  
Fax: 608-222-5405  
6809 Mangrove Lane  
Monona, WI 53713

#### ROCHESTER

507-252-0234  
888-533-8909  
Fax: 507-252-0222  
1635 3rd Avenue S.E.  
Rochester, MN 55904

#### WAUSAU

715-355-8300  
800-933-5939  
Fax: 715-298-1662  
7405 Commerce Drive  
Weston, WI 54476

## APPLICATION

All grouting should be done using established procedures according to American Concrete Institute recommendations.

**Surface Preparation...** All grout contact surfaces must be free of oil, grease, scale, etc. Unsound concrete must be chipped out. Leave surface rough but level. Grouting area must be saturated with water 12-24 hours prior to grouting. Remove all excess water before placing grout.

**Pouring...** Method of forming must provide for rapid, continuous grout placement. Ensure form is well sealed. For pouring allow a minimum clearance of 3" for entry and 6" minimum grout "head". Do not have close fitting forms; allow 1/2" clearance and 1" for exit "head." Forming must provide for venting to avoid entrapment of air.

**Placement...** The grout is easily placed by pouring or pumping and compaction can be accomplished by rodding or light vibrating. Place grout on one side, flowing to opposite and adjacent sides to avoid entrapment of air. When necessary, provide vent holes. Grout "head" and excess grout may be removed after initial set.

**Curing...** Cure in accordance with ACI 308.

**Venting...** Forming also must ensure adequate venting to avoid air entrapment. Do not make close fitting forms; allow 1/2" (12.7 mm) clearance and 1" (25.4 mm) for "head."



**Mixing...** Small quantities of grout may be hand mixed in a concrete mixing pan until lump-free. For large quantities and continuous pours, use a mortar mixer with rubber-tipped blades. Mix for a minimum of three minutes or until uniform and lump-free. Use minimum water required to produce desired placement consistency. Do not mix more than can be placed in 30 minutes. Do not re-temper. Use only clean, potable water.

Set time and strength development is dependent on temperature. Therefore, follow ACI methods during hot or cold weather grouting.

ACI 305 - "Standard on hot weather concreting"  
ACI 306 - "Standard on cold weather concreting"

Cost reductions are realized when grouting large areas by adding washed, dried and graded pea gravel. For thicknesses 2" to 4", add up to 25% 3/8" pea gravel. For medium-flow mixes, 4" and over, add up to 50% 3/8" pea gravel, plastic mix. Addition of pea gravel is based on percentage of the weight of the dry grout.

## PRECAUTIONS

Do not use as a repair mortar. Normal cement storage handling practices should be observed. Grouting should be done using established concreting procedures according to ACI recommendations.

Read and follow application information, precautions. Refer to "<http://farrellequipment.com/msds.html>" Material Safety Data Sheet for complete health and safety information.

In case of emergencies, please call 1-800-424-9300.

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## LIMITED WARRANTY

FARRELL EQUIPMENT & SUPPLY CO., INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order." Read complete warranty. Copy furnished upon request.

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