

ANCHORING CEMENT

NON SHRINK GROUT

FLOW-ROCK®

Over 5,000 PSI in 1 hour
Over 10,000 PSI in a day
Over 35,000 PSI pullout strength

PRODUCT DESCRIPTION

FLOW-ROCK is a scientifically formulated non-metallic pourable anchoring cement and grout. It is rapid setting and expansive. **FLOW-ROCK** is a non-shrink hydraulic cement with controlled expansion. It will self level when mixed with water to a pourable consistency.

FLOW-ROCK is non-rusting and contains no ferrous metals. Its controlled expansion grips the material to be anchored, locking it into place.

PRODUCT APPLICATION

FLOW-ROCK may be used to anchor bolts, equipment, machinery, railing, reinforcing rod, signs, posts, etc. It may be used to grout columns, machinery, bearing plates and precast members. **FLOW-ROCK** meets ASTM C-1107 Grade C.

PACKAGING

FLOW-ROCK is packaged in 50 lb. reusable pails (36 per pallet), 10 lb. reusable pails and 5 lb. boxes (12 per carton).

PRODUCT FEATURES

- Fast Setting
- Non-Shrink
- Non-Metallic
- Self Leveling when Mixing to Pourable Consistency
- Controlled Expansion
- High Compressive Strength
- High Pullout Strength
- Anchors by Expansion
- Meets ASTM 1107 Grade C
- Meets CRD 621

PRODUCT SPECIFICATIONS

Initial Set: 17 minutes at 75 degrees

Final Set: 45 minutes at 75 degrees

Expansion: .03%

Compressive Strength (ASTM C-109, Air Cured):

1 day
10,920 PSI

7 days
11,060 PSI

Pullout Strength: (1" diameter bolt anchored in
1 1/2" dia. Hole)

3 days
35,650 PSI

SURFACE PREPARATION

All surfaces to be anchored or grouted should be clean and free of any loose particles or debris. The surface to be grouted or anchored should be dampened with clean water, but no standing water should remain.

MIXING INSTRUCTIONS

FLOW-ROCK may be mixed to a putty consistency, depending on application. Always mix in a clean container. Excess water will reduce strength and will increase setting time.

Pourable Consistency-

Step One - Mix 1 pint of water per 5 lb. box, 1 quart of water per 10 lb. pail or 5 quarts of water per 50 lb. pail of **FLOW-ROCK**.

Step Two - Mix to a thick paste and allow mixture to stand for about one minute, then stir thoroughly.

Putty Consistency-

Step One - Mix 7/8 pint of water per 5 lb. box, 1-3/4 pints per 10 lb. pail or 4-1/4 quarts of water per 50 lb. pail of **FLOW-ROCK**.

Step Two - Mix for 1 to 2 minutes to a putty consistency.

YIELD

100 lbs. of **FLOW-ROCK** gives 1 cu. ft. of material.

APPLICATION

The hole must be free of loose particles. The hole should be filled with water and scrubbed with a stiff bottle brush. All excess water is to be removed. The hole should be clean and damp. Place anchor bolt with washer in the hole and pour in **FLOW-ROCK**. The washer should be just smaller than the hole. For grouting or anchoring in a vertical wall, force the **FLOW-ROCK** into the hole. Then tamp the bolt or rod into place and finish flush with the wall. Use warm water if a faster set is needed.

HOLE DIAMETER AND DEPTH

<u>Bolt Diameter</u>	<u>Hole Diameter</u>	<u>Hole Depth</u>
1/4"	3/4"	3"
3/8"	1"	4"
1/2"	1 1/2"	4"
5/8"	1 3/4"	6"
3/4"	1 3/4"	6"
1"	2"	8"

NOTE: All bolts must have washer just small enough to fit hole.

PRECAUTIONS

FLOW-ROCK may erode, if exposed continuously to water. Seal with water base acrylic sealer after curing for 7 days where there is heavy exposure to water. Cup **FLOW-ROCK** over anchor hole to prevent standing water. Use **SUPER FLOW-ROCK** where there is continuous exposure to water

Contact with **FLOW-ROCK** may cause skin irritation. Use rubber gloves.

LIMITED WARRANTY

Lyons Manufacturing, Inc. warrants the high quality of its products. However, because of many factors beyond our control in its use, such as job conditions, workmanship, etc., the liability of all parties making and selling this product is expressly limited to the refund of the purchase price of replacement of this material used. Lyons Manufacturing, Inc. will replace any product proven to have a manufacturing defect, FOB Factory, provided Lyons Manufacturing, Inc. is notified of such defect within six (6) months from the date of shipment from the factory. This warranty is in lieu of all other warranties, expressed or implied. Lyons Manufacturing, Inc. makes no warranty of suitability of its products for any particular application and sells its products upon the condition that customer shall conduct their own test to determine the suitability of the product for their purposes. Under no circumstances will Lyons Manufacturing, Inc. be liable for economic, special, incidental, or consequential damages or losses of any kind.

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