

EXTERIOR ANCHORING CEMENT NON-SHRINK GROUT

SUPER FLOW-ROCK®

**FAST SETTING
HIGH COMPRESSIVE STRENGTH
OVER 40,000 LBS. PULLOUT STRENGTH**

PRODUCT DESCRIPTION

SUPER FLOW-ROCK is a rapid setting, non-metallic, hydraulic cement. It is a portland cement based hydraulic cement which includes select grade silica and additives to provide more strength, shrinkage compensation, improved flow and rapid setting. It anchors by controlled expansion locking the material to be anchored in place. **SUPER FLOW-ROCK** contains no ferrous metals and is non-rusting.

PRODUCT APPLICATIONS

SUPER FLOW-ROCK is designed to be used as an exterior or interior anchoring cement. It can be used to anchor bolts, stairways railing, pipe railing, reinforcing rods, signs, posts and virtually any anchoring job. **SUPER FLOW-ROCK** may also be used to grout columns, bearing plates, machinery and precast members. It is suitable for use where there is exposure to water and freeze-thaw conditions. **SUPER FLOW-ROCK** meets ASTM C-1107 Grade C.

PACKAGING

SUPER FLOW-ROCK is packaged in 45 lb. reusable pails, 36 pails per pallet.

PRODUCT FEATURES

- Exterior or Interior Use
- Rapid Setting
- Non-Shrink
- High Compressive Strength
- High Flexural Strength
- Anchors by Expansion
- High Pullout Strength
- Non-Metallic

PRODUCT TEST RESULTS (Typical)

Initial Set: Vicat - 17 minutes

Final Set: Vicat - 35 minutes

Expansion: .15%

COMPRESSIVE STRENGTH (ASTM C-109, Air Cured)

1 Day	3 Days	7 Days	28 Days
5465 PSI	6950 PSI	7900 PSI	9650 PSI

FLEXURAL STRENGTH (ASTM C-348, Air Cured)

7 Days	28 Days
1460 PSI	1780 PSI

PULLOUT STRENGTH (1" diameter bolt, 2" diameter hole, 8" deep)

7 days - over 40,000 lbs.

SURFACE PREPARATION

All surfaces to be grouted or anchored must be clean and structurally sound; free of dust, grease, oil, paint, sealers, debris, loose particles, etc. Concrete surfaces should be kept damp for 1/2 hour prior to use, but no standing water should remain.

MIXING INSTRUCTIONS

SUPER FLOW-ROCK should be mixed with a heavy duty, high-speed drill and basket mixer. Hand mixing is NOT recommended. It may be mixed to a putty or pourable consistency. Always mix in a clean container. Excess water will reduce strength and increase setting time. Never add other materials to **SUPER FLOW-ROCK**.

Pourable Consistency: Mix 2.46 fl. oz. of water per lb. of **SUPER FLOW-ROCK** or 3-1/2 qts. per 45 lb. pail.

Putty Consistency: Mix 2.15 fl. oz. of water per lb. of **SUPER FLOW-ROCK** or 3 qts. per 45 lb. pail.

To mix, place water in clean container and mix with drill while slowly adding material. Mix for 1-2 minutes, allow to stand for about 1 minute, then mix thoroughly. Hot weather will accelerate set time and cold weather will slow it. For a quicker set, use hot water and for a slower set, use cold water.

APPLICATION

The hole should be blown out to remove dust and loose particles. Fill the hole with water and scrub with a stiff bottle

brush. All excess water should be removed. The hole should be clean and damp. Place anchor bolt with washer in hole and pour in **SUPER FLOW-ROCK**. The washer should be just smaller than the hole. Move bolt or rod around in the hole several times to insure there are no voids.

For anchoring in vertical walls, use the putty consistency and force **SUPER FLOW-ROCK** into the hole. Then tamp the bolt or rod into place and finish flush with the wall. If the **SUPER FLOW-ROCK** becomes too liquid and flows out of the hole, let it stand for a minute and stiffen.

PRECAUTIONS

Do not remix or retemper. Excess water will reduce strength and increase setting time. Always do a trial installation to determine suitability.

HOLE DIAMETER AND DEPTH

Bolt Diameter	Hole Diameter	Hole Depth
1/4"	1"	3"
3/8"	1"	4"
1/2"	1-1/2"	4"
5/8"	1-3/4"	6"
3/4"	2"	6"
1"	2-1/2"	8"
1-1/2"	3"	12"

YIELD

100 lbs. of **SUPER FLOW-ROCK** gives .9 cu. ft. of material.

CONTAINS PORTLAND CEMENT. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush with plenty of water for at least 15 minutes. Consult a physician immediately. Keep out of reach of children.

CONTAINS SILICA SAND AND FREE SILICA. Do not breathe dust. Avoid inhalation by wearing respirator. Continuous exposure and inhalation may cause silicosis and crystalline silica is classified as a known human carcinogen.

LIMITED WARRANTY

Lyons Manufacturing, Inc. warrants the high quality of its products. However, because of many factors beyond our control in their 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 or replacement of the Lyons 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 one (1) year from the date of shipment from the factory. This warranty is in lieu of all other warranties, express 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 products 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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