

Non-Shrink Precision Grout

Description

Pakmix[®] Non-shrink Precision Grout is an extended working time grout formulated to be used at a variety of consistencies from dry pack to fluidity. Factory quality controlled for consistency. Pakmix[®] Non-shrink Precision Grout exceeds the strength requirements of CRD C-621 & ASTM C-1107. Grade C. Pakmix[®] Non-shrink Precision Grout is a non-metallic, Portland cement based grouting material.

Recommended Uses

- Precision grouting of machinery base plates, sole plates, and columns.
- Applications where high one day strengths are required such as anchor bolts, dowels, crane rails, handrails, or structural grouting.
- Applications where a grout needs to be pumped.

Benefits

- Long working time for easy placement.
- Pakmix[®] Non-shrink Precision Grout can be placed at either a fluid, flowable plastic or dry pack consistency.
- Extremely high strength even when placed at a fluid consistency for fast equipment turn around.
- Expands in plastic state for maximum bearing area.
- Hardens free of bleeding or settlement.

Applicable Standards

Corps of Engineers CRD C-621 ASTM C-1107. Grade C

Yield

One (1) 50 lb. bag of Pakmix[®] Non-shrink Precision Grout yields 1/2 cubic foot of grout when mixed with 3 – 4 quarts of potable water. (Plastic - 3 quarts potable water, flowable - 3.5 quarts potable water, fluid - 4 quarts potable water.)

Typical Compressive Strength

	Plastic ¹ 100% Flow	Flowable ² 135% Flow	Fluid ³ 25/30 Sec
1 Day	5500 psi	5000 psi	4500 psi
3 Days	9500 psi	9000 psi	8000 psi
7 Days	11500 psi	10500 psi	9000 psi
28 Days	13000 psi	12000 psi	11000 psi

¹ 5 Drops, 3 seconds per ASTM C-230 (Flow Table)

² 5 Drops, 3 seconds per ASTM C-230 (Flow Table)

³ 25 – 30 seconds flow per ASTM C-939 (Flow Cone Method)

Surface Preparation

Remove all dirt, oil, and any other foreign materials. All metal in contact with Pakmix[®] Non-shrink Precision Grout must be free of oil, rust, and grease. Surface must be prepared properly to insure proper bonding and must be roughened to expose sound concrete. Concrete surfaces to be grouted must be saturated with clean water for 24 hours if possible, minimum 4 hours. Remove all excess water prior to placement of Pakmix[®] Non-shrink Precision Grout. Shade foundation from intense sunlight 24 hours before and after grouting.

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Mixing

A mortar mixer is recommended for large applications. For small jobs a 1/2" drill with a jiffler or paddle type mixer which does not entrap air may be used. Always start with minimum water required. Add water to mixer first then slowly add powder. Add additional water as required to achieve desired consistency. Never add water in an amount that causes segregation.

Application

For plastic or flowable placements only. For depths over 2", 3/8" pea gravel may be added at a rate of 25% by weight of 50 lbs. of Pakmix[®] Non-shrink Precision Grout. For depths 4" and over, 3/8" pea gravel may be added at a rate of 50% by weight of 50 lbs. of Pakmix[®] Non-shrink Precision Grout.

Hot Weather/Cold Weather Grouting: Contact Technical Department

Packaging

50 lb. moisture resistant bags: 63 bags per pallet, 12 pallets per truck.

Curing

Cure all exposed Pakmix[®] Non-shrink Precision Grout with a curing compound after Pakmix[®] Non-shrink Precision Grout has been wet cured for at least 24 hrs. with wet rags.

Limitations/Precautions

Do not vibrate Pakmix[®] Non-shrink Precision Grout. Use of steel straps inserted under base plate can be used to assure Pakmix[®] Non-shrink Precision Grout movement. Do not place Pakmix[®] Non-shrink Precision Grout if temperatures are below 40° F or if temperature will fall below 40° F within 24 hours of placement. Do not retemper Pakmix[®] Non-shrink Precision Grout or exceed maximum water as stated on bag. Do not mix more Pakmix[®] Non-shrink Precision Grout than can be placed in 30 minutes. Do not add cement, sand, or admixtures to Pakmix[®] Non-shrink Precision Grout.

50 lb bag



CAUTION • AVOID CONTACT WITH SKIN • INJURIOUS TO EYES Contains Portland Cement (CAS #65997-15-1). Freshly mixed cement, mortar, concrete, grout, or stucco may cause skin injury including severe alkali burns. If exposed, wash skin promptly and repeatedly for 15 minutes and get prompt medical attention. The use of gloves and protective eye wear is recommended. If any cement or cement mixtures get into the eye, rinse immediately and repeatedly with water for 15 minutes and get prompt medical attention.

WARNING INHALATION HAZARD Avoid inhalation of dust from this product, which contains crystalline silica and other chemicals, which may cause lung disease and cancer. Use with mechanical ventilation or respiratory protection (dust mask).

EXCLUSION OF INCIDENTAL AND CONSEQUENTIAL DAMAGES Neither the manufacturer nor the retailer of this product shall be liable for any incidental or consequential damages caused by the use of this product.

KEEP OUT OF REACH OF CHILDREN

DISCLAIMER AND LIMITATION OF LIABILITY This material is warranted to be of good quality. Upon receipt of a claim within one year from the date of sale, defective material will be replaced or the purchase price refunded at the option of the manufacturer. Except for the foregoing, all warranties, express or implied, including merchantability and fitness for a particular purpose, are excluded. No liability is assumed for any consequential, incidental or special damages arising directly or indirectly from the use of the material.