



IPA SYSTEMS

IPATOP PENNGROUT

NON-SHRINK CEMENTITIOUS GROUT



IPA SYSTEMS

QUALITY PRODUCTS FOR THE CONCRETE /MASONRY REPAIR INDUSTRY

Description

IPATOP PENNGROUT is a versatile, high strength , non-metallic, expansion controlled cementitious structural grout. It contains a balanced blend of high quality materials with washed graded silica sands for the most demanding project.

Where to Use

Designed for interior, exterior, above and below grade structural grouting of column base plates, machine base plates, bearing plates, posts, anchor bolts and rods, dowel, etc.

Advantages

- ◆ Made in America
- ◆ Economical and easy to use... just add water
- ◆ High early, high ultimate strengths
- ◆ No corrosive, non-metallic, will not stain or rust
- ◆ No calcium chlorides or alumina
- ◆ Resistant to penetration by water, oil and chemicals
- ◆ Excellent freeze/thaw resistance
- ◆ Multiple applications methods: poured, troweled, pumped, dry packed, rammed, vibrated or agitated without segregation

Specifications

Meets: CRD C 588-70, CRD C 621-81, ASTM C 827-82, ASTM C 191-79, ASTM C 1107 (70°F) (21.1°C)

Coverage

Yield is 0.5 cubic feet (14.2L) at the plastic consistency

Packaging

52 lb (23.6 kg) multi-wall bag, 56 Bags/pallet,
Shelf life 1 year in original, unopened bag Store dry at 40°-95°F (4°-35°C) Condition material to 65°-75°F before using.

Technical Data

Compressive Strength, psi (MPa) (ASTM C109)

<u>Qts Water</u>	<u>1 Day</u>	<u>3 Days</u>	<u>7 Days</u>	<u>28 Days</u>
2 1/2 (2.4L)	7,200 (49.6)	9,500 (65.5)	11,000 (75.8)	12,000 (82.7)
3 1/2 (3.3L)	6,000 (41.4)	7,500 (51.7)	8,500 (58.6)	9,400 (64.8)
4 (3.8L)	5,000 (34.5)	6,200 (42.7)	7,500 (51.7)	8,600 (59.3)
4 1/2 (4.3L)	4,300 (29.6)	5,200 (35.9)	7,000 (48.3)	8,000 (55.2)

Surface Prep

Surface must be clean free of oils, grease and any other contaminates that will prohibit bond. Surface should be sound and roughened by mechanical means to promote adhesion. Area to be grouted should be saturated surface dry prior to application.

Mixing

Mixing small quantities manually is acceptable, larger batches will require mechanical mixing by mortar paddle or mortar mixer. Mix to a uniform consistency for 3 minutes. Add the following amounts of clean potable water as required by application method.

- ◆ Dry Pack 2 1/2 quarts (2.4L)
- ◆ Plastic 3 1/2 quarts (3.3L)
- ◆ Pourable 4 quarts (3.8L)
- ◆ Pumpable 4 1/2 quarts (4.3L)

IPA SYSTEMS, INC

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Application

Within minutes after mixing, place grout from one side to avoid forming air pockets. Forms should provide at least 3 inches (7.6m) clearance on pouring side, 1/2 inch (1.3 cm) clearance on opposite side. To aid in placement of grout, form may be slanted inward on pouring side. Cavity must be slightly overfilled to allow for tamping, screeding or vibration to insure full contact with object to be grouted. Minimum grout thickness for anchoring base plates is 3/4 inch (1.9 cm) thick.

FOR DEPTH'S greater than 2 inches, add 25 lbs (11.3kg) of Washed pea gravel Working time / open time is a minimum of 45 minutes. Forms may be removed after 24 hours.

CURING: Wet cure for a minimum of 3 days or apply a curing compound which complies with ASTM C-309 on exposed surfaces.

Limitations

- ◆ Minimum ambient and substrate temperatures 40°F and rising
- ◆ Minimum application: 1/2 Inch
- ◆ Maximum application thickness without Extension: 2 inches
- ◆ Avoid contact with aluminum to prevent adverse chemical reaction

Caution

FOR INDUSTRIAL USE ONLY:

Contains Portland cement and crystalline silica. Avoid contact with skin and eyes. Avoid breathing dust. Use adequate ventilation. In case of skin contact, wash thoroughly with soap and water. Obtain medical assistance.

Warranty

This product is warranted and guaranteed to be of good quality. Manufacturer, as its sole and exclusive liability hereunder, will replace material if proved defective. This warranty and guarantee are expressly in lieu of all others, express or implied, including any implied warranty of merchantability or fitness for a particular purpose and may not be extended by representatives or any persons, written sales information, or drawing in any manner whatsoever. While the manufacturer recommends uses for the product based on tests believed reliable, no warranties, express or implied, or guarantee can be given as to particular methods of use or application, nor can performance be warranted, expressly or impliedly, or guaranteed under special conditions. Distributors, salesperson or company representatives are not authorized to extend or vary any warranties or guarantees beyond those outlined herein nor may the manufacturer's or seller's limitation of liability be waived or altered in any manner whatsoever.

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