



Civil Engineering

## Magmaflow Grout-Pak

Magmaflow Grout-Pak a 3 component, 100% solids, modified epoxy system formulated to produce a moisture-insensitive, chemical resistant epoxy grout. Meets requirements of Florida DOT Section 926, Type Q - Compounds to protect the anchorages of post-tensioning tendons or bars.

### Advantages

- Pre-proportioned units
- High Flowability and fill characteristics
- Good chemical, corrosion and impact resistance
- Excellent Adhesion
- Long working time
- Low exotherm
- Excellent bearing area for even distribution of loads

### Packaging

1/2 cu. Ft. unit - Component A ( Resin ) Component B ( Curing agent) Component C (Aggregate).

Color – Concrete Gray

Property	Test Value	Test Method
Compressive Strength Cubes 7 day Cure @ 73°F	17,700 psi	ASTM C 579B
Tensile Strength @ 7 Day	2140 psi	ASTM C 307
Flexural Strength @ 7 Day Cure @ 77°F	3790 psi	ASTM C 580
Modulus of Elasticity @ 7 Day Cure @ 77°F	1,800,000 psi	ASTM C 580
Coefficient of Thermal Expansion @ 74° to 210°F	14.8 X 10 <sup>-6</sup> in./in./°F	ASTM C 531
Peak Exotherm, Specimen 12" X 12" X 3"	140° F	ASTM D 2471
Slant Shear @ 7 days Bond Strength to Concrete	7600 psi	ASTM C 882
Thermal Compatibility	Passed	ASTM C 884
Linear Shrinkage @ 7 days	< 0.025%	ASTM C 531
Flowability and Bearing	> 90 % Contact area	ASTM C 1339
Gel Time Specimen 12" X 12" X 3"	63 min.	ASTM D 2471

Pilgrim Permocoat, Inc.  
 402 South 22<sup>nd</sup> Street, Tampa, Florida 33605  
 (813) 248-3328 , (800) 637-3328

Compressive Properties	ASTM C-579		
Compressive Strength, psi	40°F	73°F	90°F
8 hour	-	-	8,500
16 hour	-	9,500	10,200
24 hour	-	11,900	13,400
3 day	5,600	17,000	17,000
7 day	8,000	17,700	17,800

## **SURFACE PREPARATION**

Substrate must be clean, sound, and free of standing water. Remove dust, laitance, oils, grease, curing compounds and any foreign substances that may interfere with adhesion. Remove by mechanical means (i.e., sandblasting, grinding, bush hammering). Sandblast metal surfaces for maximum adhesion. Minimum surface preparation for steel is grinding or mechanical wire brushing. Mix and apply grout ASAP to prevent oxidizing.

## **LIMITATIONS**

Minimum application and substrate temperature 40°F. Condition all components to 70°+ to assure good flow properties. Minimum grout depth is 1 inch. Maximum grout depth is 12 inches. If more than 12 inches is required, pour in lifts after first lift has developed initial cure. Cold material has reduced flow properties. Mix only complete units.

## **FORMING**

Magma flow Grout-Pak has a tenacious bond to most materials. Forms must be coated with a bond breaking polyethylene or a paste wax. Seal forms with putty, caulking or foam – forms must be liquid tight. Prepare forms with a 2” head to facilitate placement. Attaching a grout box to the form can enhance flowability.

## **MIXING**

Aggregate must be completely dry.

Precondition all components to 70°F+ for 24 hours before using. Remove from the pail all three components. Pour the A & B Component into the pail & mix with a “Jiffy Mixer” blade attached to a 3/4 drill motor for two minutes. Immediately add entire contents of the aggregate component. Mix again for 3 minutes. Pour the mixed grout into forms without delay.

## **CLEAN-UP**

Clean tools and equipment with Pilgrim #5 Cleaner.

## **STORAGE**

Store inside in tightly closed containers at moderate temperatures. Shelf life is two years in original packaging.

## **HANDLING PRECAUTIONS**

For Industrial Use Only! Warning! May produce skin irritation and on prolonged contact may cause serious skin dermatitis. Skin contact should be avoided by use of protective clothing such as rubber gloves and eye protection. Any skin coming in contact with resin should be washed thoroughly with soap and water. Eye contact should be avoided; should it occur, flush thoroughly with water for at least 15 minutes.

## **WEAR PROTECTIVE CLOTHING, GOGGLES, GLOVES, etc.**

Consult Material Safety Data Sheets.

Pilgrim Permocoat, Inc.  
402 South 22<sup>nd</sup> Street, Tampa, Florida 33605  
(813) 248-3328 , (800) 637-3328