



MASONS SUPPLY COMPANY

OREGON

WASHINGTON

MASCO GENERAL PURPOSE GROUT

DESCRIPTION

MASCOGROUT GENERAL PURPOSE is a non-shrink, natural aggregate, construction grout designed for high strength performance at damp pack, plastic, and flowable consistencies.

USES

- Grouting columns and base plates
- Anchoring bolts, dowels and reinforcing bars
- Anchoring hand rails and sign posts
- Grouting precast panels and keyways
- Grouting joints in precast pipe
- Patching tie holes in concrete

FEATURES AND BENEFITS

- Controlled positive expansion / Non-Shrink
- Non-Corrosive to steel
- Interior or exterior application
- Color similar to concrete after cure
- Can be extended with clean 3/8" pea gravel to fill large voids
- Versatile from damp pack to flowable consistencies

PHYSICAL PROPERTIES @ 75° F

Application Life:	approx. 25 min			
Set Time (ASTM C-266):	Initial	Final		
Plastic	25 min	150 min		
Pourable	30 min	160 min		
Flowable	75 min	230 min		
Height Change (ASTM C-1090):	1 day	+.01		
	3 days	+.02		
	7 days	+.02		
	28 days	+.04		
Compressive Strength, psi (ASTM C-109):				
Consistency	1 day	3 day	7 day	28 day
Plastic/Damp Pack	2,500	4,000	5,500	7,000
Pourable	1,500	3,000	4,500	6,000
Flowable	1,000	2,500	3,000	5,000

SURFACE PREPARATION

Surface must be clean and sound to ensure good bond. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials. Defective concrete must be removed and surface roughen. Maintain grouting surfaces between 45°F and 85°F before grouting and during curing period. When grouting within 5°F of stated temperature range refer to ACI 305/306 guidelines. The area to be grouted must be saturated for a minimum of 4 hours before placement. Remove any standing water before placement. Forms must be treated with a release and sealed to prevent water or grout loss. When proper saturation of substrate cannot be accomplished, consult MASONS SUPPLY. **Preparation work:** Concrete - Sandblast or use other approved mechanical methods. Steel - Sandblast to white-metal finish.

MIXING INSTRUCTIONS

For best results use a mechanical mixer with rotating blades like a mortar mixer. Pre-wet mixer and empty excess water. Place 3/4 of the required clean potable mix water in the mixer, with mixer running slowly add grout, add the minimum additional water necessary to achieve the desired consistency. For hot weather conditions (greater than 85°F) store bags of material in a cool dry area free from moisture and direct sunlight. Mix with cold water approximately 40°F. For cold weather conditions (less than 45°F) store bags of material in a warm dry area free from moisture. Mix with warm water approximately 90°F. Mix for 3-5 minutes ensuring grout and water are a uniform batch. When grouting application requires mixing with 3/8" pea gravel aggregate (see placement information), first add mixing water, aggregate then grout. Mix only enough grout that can be placed within application life approximately 25 minutes. This will vary with ambient conditions. Do not re-temper mix.

WATER REQUIREMENTS

Desired Consistency	Water per 50 lb bag
Plastic / Damp pack	3-1/2 quarts
Pourable	4 quarts
Flowable	4-1/2 quarts

PLACEMENT

Grout should be placed using established procedure according to ACI recommendations. MASCOGROUT GENERAL PURPOSE can be placed by pumping, pouring, rodding, or strapping. **Do not vibrate grout.** Forms should have 1" clearance from base plate and 2" clearance where grout is placed. Forms should be 1" higher than the bottom of the base plate. Provide a 45° angle in the forms high enough to assist in grouting and to maintain head pressure on the grout during the entire grouting process. A moveable head box is a method to provide additional head pressure. Place grout from one side, flowing to opposite and adjacent sides to avoid entrapment of air and uneven bearing of the grouting surfaces. When necessary, provide vent holes. When possible, grout anchor bolt holes first. Placement and consolidation should continue until grout protrudes from the entire perimeter grouting area. When nearby equipment causes vibration of the grout, such equipment should be shut down for a period of 24 hours. For placement depths exceeding 2" in one lift use 12-1/2 lbs of clean washed 3/8" pea gravel to each bag of MASCO GROUT GENERAL PURPOSE to dissipate the heat of hydration. This will reduce the flowability of the grout. For pours greater than 6" in depth, consult Masons Supply for special precautions and procedures.

FINISHING AND CURING

Exposed grout surfaces must be cured with wet rags. When grout has reached initial set, forms can be removed and edges cut away areas where grout restricts movement of steel, i.e., edges of base plates. For best results grout should be extended

downward at a minimum 45 degree angle from the lower edge of base. Cure all exposed grout shoulders using MASCO CURE & SEAL or wet cure for 3 days if a subsequent coating are to be applied.

COVERAGE

One 50 lb bag mixed with 4-1/2 quarts of potable water provides approximately .43 cubic foot of mixed grout at flowable consistency. When extended with 12-1/2 lbs of clean 3/8" pea gravel yield will be .52 cubic foot.

COMPLIANCES

MASCOGROUT GP conforms to ASTM C-1107 Grade C and CRD C-621.

TEMPERATURES

For applications in hot weather conditions (greater than 85°F) store material in a cool, dry area free from moisture and direct sunlight. Mix with cold clean potable water approximately 40°F and refer to ACI 305, Hot Weather Conditions. For cold weather conditions (less than 45°F) store material in a warm, dry area free from moisture. Mix with warm water approximately 90°F and refer to ACI 306, Cold Weather Conditions. PROTECT FROM INCLEMENT WEATHER AND FREEZING.

CAUTIONS

Designed for application temperatures from 45°F to 85°F. Use cold and hot weather concreting practices (ACI 305/306) when grouting within 5°F of stated temperature range. For best results a minimum of 1" vertical clearance should be allowed when placing at flowable consistency. Do not add plasticizers, accelerators or retarders. All surfaces should be clean, free of dirt, oil, grease, laitance, curing compounds, sealers and other contaminants. Concrete must be clean, sound, rough and saturated with clean water for a minimum of 4 hours before placement. When not practical consult Masons Supply. Do not place in any lift over 2" unless product is extended with 12-1/2 lbs of clean 3/8" pea gravel to dissipate the heat of hydration. Flowability will be reduced. For depths over 6" consult Masons Supply. Do not re-temper after initial mixing. Where precision alignment, heavy loading, rolling and/or impact resistance is required consult Masons Supply. Where chemical or high heat resistance is required consult Masons Supply.

PACKAGING

50 lb bags. Available in bulk bags upon request.

HAZARDS IDENTIFICATION

Product contains portland cement and silica sands. Freshly mixed grout may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water. Do not take internally. Harmful if ingested. Keep out of reach of children. See Material Safety Data Sheet for additional information.

Dry sawing, grinding and sandblasting concrete masonry products will result in release of dust particles (respirable crystalline quartz) which could cause minor eye or nose irritation if proper protection is not in place. Respiratory and eye protection is required as specified in the Material Safety Data Sheet (MSDS) for concrete masonry products, provided by this company.

Health Hazard Warning: Prolonged inhalation of airborne silica particles contained in silica sand, and other silica-containing materials can cause delayed lung injury including SILICOSIS, a progressive, disabling and sometimes fatal lung disease. IARC has determined that crystalline and microcrystalline silica inhaled from occupational sources can cause cancer in humans. Laws require you take precautions for the safety of your employees and others who have contact with airborne silica particles. Notify your employees. Seller disclaims all liability for harmful health effects.

FIRST AID

If any grout mixture gets into eyes, rinse immediately and repeatedly with water and get prompt medical attention.

CLEANUP INSTRUCTIONS

Using clean water.

TECHNICAL SERVICES

For application procedures or surface conditions not specified above, please contact:

MASONS SUPPLY
2637 SE 12th Ave
Portland, OR 97202
(503) 234-4321, FAX (503)234-5606
masco.net

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