



Concrete Admixtures and Fiber

IMIGROUT 50

General Purpose Non-Shrink, Non-Metallic Grout

DESCRIPTION

IMIGROUT 50 is specially designed for damp pack to fluid applications. It is a blend of Portland Cement, and natural aggregates with cementitious expansive agents.

USE

IMIGROUT 50 recommended applications include grouting of equipment bases, precast walls, tilt-up panels, tie holes anchor bolts etc.

ADVANTAGES

- Flowable and self-leveling
- Non-staining, will not rust
- Non-shrink for maximum bearing
- Does not contain any corrosive chemicals such as chlorides
- High Strength

TECHNICAL INFORMATION

IMIGROUT 50 Meets Corps of Engineers CRD C-621, ASTM C-1107 (Modified Test), ASTM C-827

Application

Surface Preparation: Remove all dirt, oil, and loose or foreign material. Any metal in contact with grout must be free of rust, oil, grease, etc. Surface must be sound and roughened to insure proper bonding. Prior to placing grout, surface should be saturated for a minimum period of four hours and preferably twenty-four hours. Remove all excess water before placement of grout. Bolts, base plates, and equipment must be secure and rigid before placement of grout.

Forms: Must allow for a continuous placement of grout. Provisions for venting to avoid air entrapment must be made. From the placing side, provide a 45° angle in the forms to a height suitable to provide a head of grout during placement. On all sides provide a minimum 1/2"(1.25 cm) horizontal clearance between the base plate and forms. Forms should be at least 1"(2.54 cm) higher than the bottom of the base plate.

Mixing: DO NOT mix by hand. Use a mechanical mixer: For small jobs, use a 1/2"(1.25 cm) low speed drill with a wire egg beater type paddle; for large jobs, use a mortar mixer. Start with minimum water requirements. Add water to mixer first, then slowly add powder. Add additional water as required for desired consistency. Water requirements per bag are:

- **Plastic** 50 lbs. grout (22.7 kg) 3.22 to 3.33 liters
- **Flowable** 50 lbs. grout(22.7 kg.) 3.33 to 3.56 liters
- **Fluid** 50 lbs. grout(22.7 kg.) 3.79 to 4.32 liters

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Note: The data shown is based on controlled laboratory testing. Reasonable variation from results shown can be expected. Field and laboratory testing should be controlled on the basis of the desired placing consistency, rather than strictly on the water content.

Curing: Immediately cover with clean wet rags (DO NOT use burlap) and keep moist until final set. After final set, remove rags and apply an ASTM C-309-91 IMI curing compound.

Deep Applications: Pre-washed graded 3/8"(1 cm) pea gravel may be used in applications thicker than 2"(5.08 cm): 2"(5.08 cm) to 5"(12.7 cm): Add 25% 3/8"(1 cm) pea gravel by weight. 5"(12.7 cm) and over: Add 50% 3/8"(1 cm) pea gravel by weight.

Yield: Yield per 50 lbs. (22.7 kg.): Mixed with 1 gallon 8.33 lbs (3.79 L) of water will yield approximately 0.45 ft³ (.0127 m³). Less water will reduce yield slightly.

Hot Weather Grouting: Provide shade for area to be grouted. Use cool mixing water. Protect grout from the sun for up to 24 hours.

Cold Weather Grouting: Raise the temperature of the area to be grouted with space heaters or steam. Preheat mixing water. Cover grout to retain warmth.

Placing: Place continuously and quickly. Start from one side to avoid air entrapment. Be sure grout fills all spaces and remains in contact with plate. DO NOT VIBRATE. For damp packing, rod from one side to opposite side.

IMIGROUT 50 TEST DATA			
Compressive Strength (ATSM C-109)	Plastic psi (MPa)	Flowable psi (MPa)	Fluid psi (MPa)
3 days	5000(34.5)	4500(31.0)	3500(24.1)
7 days	7300(50.3)	5800(40.0)	5000(34.5)
28 days	10500(72.4)	8600(59.3)	7200(49.6)
Expansion Percentage (CRD C-621)			
3 days	0.05%	0.03%	0.01%
14 days	0.05%	0.03%	0.01%
28 days	0.05%	0.03%	0.01%
Yield Approximately	0.43 ft. ³ (.0122 m ³)	0.44ft. ³ (.0125 m ³)	0.45 ft. ³ (.0127 m ³)

PACKAGING : 50 lb. triple lined bag (22.7 kg) 60-50 lb.(22.7 kg) bags per pallet

LIMITATIONS/PRECAUTIONS: DO NOT overdose water. This can cause bleeding or separation. DO NOT retemper. DO NOT add cement, sand, aggregate or admixtures. DO NOT mix more than can be used in thirty minutes.

