

EPOGROUT 758™

High Flow, High Strength Epoxy
Machine-Base Grout

MANUFACTURER

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PRODUCT DESCRIPTION

EPOGROUT 758 is a three-component, flowable, epoxy-based grout that produces high performance strength and chemical inertness.

EPOGROUT 758 is scientifically formulated with a high aggregate to resin ratio to provide high strength while allowing easy flowable placement. **EPOGROUT 758** contains a carefully selected combination of epoxy resins and aggregate fillers which provides beneficial physical properties such as, resistance to chemical and physical degradation, resistance to creep, and excellent adhesion to both steel and concrete. **EPOGROUT 758's** 100% epoxy resin base provides alignment that is precise and permanent for equipment and machinery. **EPOGROUT 758** is unaffected by oils, water, most chemicals and develops rapid strength gain to allow quick return of vital equipment to service.

Basic Use: Using **EPOGROUT 758** means trouble-free grout performance. In steel mills use as a foundation grout under crushers, ball mills, rod mills, slab tables, and heavy equipment. In gas transmission companies use in placing compressor engines requiring precise, permanent alignment. Other **EPOGROUT 758** applications include: grouting original installations of heavy equipment such as compressors, pumps, engines and other machinery; grouting railroad, subway and crane rails; sole plates and anchor bolts; repairing cracked foundations; in pipelines, sewage plants or other areas where rapid strength and chemical resistance are critical. **EPOGROUT 758** is also recommended for encapsulation of columns and piles.

FEATURES & BENEFITS

- Flowable for easy placement.
- Very low peak exotherm.
- Fast cure and high early strength.
- Low creep/high modulus of elasticity.
- Fast turnaround projects.
- High compressive strength.

ESTIMATING

EPOGROUT 758 is available in two convenient factory-prepared sizes:

62 Lb. Single Unit - .47 ft³ (13.5 L)

- 1 - 10.6 lb (4.80 kg) pail Resin (A)
- 1 - 1.45 lb (0.66 kg) pail Hardener (B)
- 1 - 50 lb (22.7 kg) bag Aggregate

248 Lb. Full Size Unit - 1.9 ft³ (54 L)

- 1 - 42.4 lb (19.30 kg) pail Resin (A)
- 1 - 5.80 lb (2.64 kg) pail Hardener (B)
- 4 - 50 lb (22.7 kg) bags Aggregate

NOTE: In order to increase flow, a moderate reduction of no more than 25% aggregate is allowed. Please note that a corresponding reduction in grout volume will occur. A high flow, 3 bag unit will produce 1.45 ft³ (40 L). As a safety precaution, order an additional 10-20% of material to accommodate installation variables.

TECHNICAL DATA

Applicable Standards:

ASTM C 881
CRD-C 590
MMM-A-001993, Type 1-C
VOC Compliant

EPOGROUT 758 typical properties:

Color	Light Gray	
Bond Strength, to Concrete	100% Concrete failure	
Bond Strength to Steel- psi (mpa)	1800(12)	
Compressive Strength ASTM C 579, psi (mpa):		
1 day	3 days	7 days
7000(48)	13000(83)	13200(86)
Density, In Place	136 lbs./cu.ft.	
Flexural Strength, psi (mpa)	4650 (32)	
ASTM D 790		
Modulus of elasticity	3.6x10 ⁶ psi	
ASTM D 790		
Peak exotherm, 12" mass	81°F (27°C)	
Pot Life: at 77°F (25°C)	60 minutes	
Full Cure	7 days	
Temperature, Placement minimum	50°F (10°C)	
Optimum Placement Range ...	60-85°F (15-30°C)	
Maximum Operating Range:		
Peak	150°F (65°C)	
Constant	130°F (57°C)	
Thermal coefficient linear exp.		
ASTM D-696	17x10 ⁻⁶ in/in/°F	
Water Absorption (7 days)	0.11%	

INSTALLATION

Surface Preparation: Concrete surfaces must be structurally sound, clean and dry. Protect area around placement with plastic sheeting to prevent unwanted accumulation of epoxy grout.



EPOGROUT 758



Old Concrete Foundations: Surfaces must be structurally sound, oil-free and contaminant-free prior to placement of **EPOGROUT 758**. Any deteriorated or contaminated concrete layer must be removed to a sound base. All deposits of foreign material must be scarified from the surface.

New Concrete Foundations: Roughen the surface and remove any surface laitance. Rough surfaces aid in anchoring grout by providing more bonding area to utilize the high shear strength of **EPOGROUT 758**. Concrete shall be 28 days of age or older.

Base Plate Preparation: Grind or sandblast all oil, rust, mill scale or old paint to a bright, clean metal surface.

Forming: Liquid-tight forms should be braced and of sufficient strength to withstand pressure. Double coat forms with paste wax or wrap with plastic sheeting to allow for easy removal. Form elevation should be approximately one vertical inch higher than the highest point to be grouted. Position side and end forms at least one horizontal inch from the bearing plate or equipment base. Placement side form should be at least two inches from the object to be grouted.

Mixing: Stir each liquid component separately before blending. The materials are all premeasured. Pour all of A into mechanical mixer and then add B while mixing slowly and well. Slowly add aggregate with continued mixing until all aggregate is uniformly coated and proper consistency is achieved. *To increase the flowability, reduce the amount of aggregate. The lower the quantity of aggregate, the greater will be the flowability. The minimum aggregate content is 75% of the total aggregate in the unit.* Do not add solvent. To reduce air entrapment caused by mixing, run mortar mix until all aggregate is uniformly coated but no more than 5 minutes.

Placement: Fill anchor bolt holes and block-outs first. For flat baseplates, pour from one side. Prevent air entrapment. Rods, pre-placed straps, and other tools will assist in moving the grout. Use a wooden head box for large pours. **EPOGROUT 758** should be placed a minimum of ½ inch (10mm) thick and a maximum of 6 inches (150 mm). At thickness over 2 inch (50 mm), use full aggregate loading. Periodically wipe trowel or tools with solvent to reduce drag.

Finishing and Clean-Up: Clean tools with soap and water or lacquer thinner before **EPOGROUT 758** hardens. Clean mixing equipment by running dry aggregate with soap and water or lacquer thinner in mixing drum for a few minutes. Clean hands with abrasive hand soap.

FOR BEST RESULTS:

Refer to L&M's *Guide to Precision Structural Grouts*. Not recommended for placement below 50°F (10°C). Do not apply in standing water or over surfaces not thoroughly cleaned. Protect surfaces where bond is not desired with two coats of paste wax or plastic sheeting.

PRECAUTIONS

Contains epoxy resins. Unmixed liquid component B is corrosive. Prolonged exposure to skin may cause irritation, dermatitis or other allergic responses. Cornea damage can occur from eye contact. Mix in ventilated area. DO NOT breath excessive fumes. Wear protective gloves, goggles and clothing when handling epoxy resins. Aggregate component contains silica dust. Dust mask recommended.

Please refer to Product Material Safety Data Sheet (MSDS) for each component before using.

STORAGE/SHELF LIFE

The unmixed liquid components and aggregate of **EPOGROUT 758** must be stored in weather tight warehouses at temperatures above 50°F (10°C). Shelf life is 2 years in factory-sealed containers. EpogROUT aggregate may be stored indefinitely in a dry environment.

WEBSITE

L&M's convenient internet website offers instant access to Tech Data Sheets, Material Safety Data Sheets, product updates, and other useful information. Visit www.lmcc.com and follow the easy steps. L&M is ready to respond to your concrete information needs - anytime - anywhere!

LIMITED WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to L&M Construction Chemicals ("L&M") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond L&M's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product. L&M shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. L&M's sole responsibility shall be to replace that portion of the product which proves to be defective. Any warranty claim must be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly installed and used according to all instructions and was properly stored prior to use.

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