



ChemMasters®

Gorilla Grout™

Enhanced Strength, Non-Shrink,
Non-Metallic Precision Grout

SPECIALTY CONSTRUCTION PRODUCTS

PRODUCT DATA

DESCRIPTION

ChemMasters' Gorilla Grout is an enhanced strength, non-shrink, non-metallic precision grout. Gorilla Grout is ideal for use in high compressive strength applications without the 'creep' associated with epoxy formulations. Meets ASTM Standards C1107 and CRD-C 621.

ADVANTAGES

- Controlled expansion for high tolerance placements.
- Place with standard equipment even at high fluid consistency.
- High compressive strengths at plastic, flowable, or fluid consistency.
- Free of chloride ions or other additives known to cause oxidation and deterioration of concrete or base plates.
- Provides maximum load bearing capacity.
- Extendable with up to 25 lbs (11.4 kg) pea gravel.

USES

| | |
|-----------------------|-------------------|
| Machinery Base Plates | Machine Bases |
| Sole Plates | Base Plates |
| Boiler Plates | Bed Plates |
| Building Columns | Hand Rails |
| Bridge Beams | Pipes/Sleeves |
| Sewers | Precast Beams |
| Precast Columns | Dowels |
| Fence Posts | Highway Barriers |
| Anchor Bolts | Underpinings |
| Precast Wall Panels | Structural Column |

Packaging (moisture proof bags) Part Numbers

| Bags | lbs / kg | Pallet | Part # |
|------------|-----------|--------|----------|
| Poly lined | 50 / 22.7 | 60 | F2305.50 |

TECHNICAL DATA

- CSI Master Format 03 62 00

Early Expansion ASTM C 827 3" x 6" cylinders (average of 2)

| | |
|-------|------|
| fluid | 1.7% |
|-------|------|

Flow ASTM C 827 Water / 50 lb of Gorilla Grout

| | Pints | Liters | |
|----------|-----------|------------|----------------|
| plastic | 7 to 7.5 | 3.3 to 3.5 | 100 to 125% |
| flowable | 7.5 to 8 | 3.5 to 3.8 | 126 to 145% |
| fluid* | 9.5 to 10 | 4.5 to 4.7 | 20 to 30 sec * |

* Fluid grout tested in flow cone according to CRD C611

Set Times ASTM 191/Vicat Method minutes to set

| | Initial | Final |
|----------|---------|-------|
| plastic | 75 | 165 |
| flowable | 165 | 240 |
| fluid | 255 | 315 |

Compressive Strength ASTM C109 2" cube psi @ _ days (average of 3)

| | 1 | 3 | 7 | 28 |
|----------|-------|-------|-------|--------|
| plastic | 5,010 | 8,630 | 8,820 | 10,810 |
| flowable | 3,870 | 7,640 | 8,740 | 10,400 |
| fluid | 2,440 | 5,130 | 6,620 | 8,150 |

Expansion ASTM 1090 / CRD C 621 Moist Cured % expansion at _ days

| | 1 | 3 | 14 | 28 |
|-------|-------|-------|-------|-------|
| fluid | 0.05% | 0.05% | 0.05% | 0.04% |

Yield per 50 lb (22.7 kg) bag

| | ft ³ | m ³ |
|----------|-----------------|----------------|
| plastic | 0.42 | 0.012 |
| flowable | 0.45 | 0.012 |
| fluid | 0.48 | 0.013 |

VOLUME GROUTING

For applications over 2 inches (5 cm) deep, Gorilla Grout may be extended with up to 25 pounds (11 kg) of clean, SSD 3/8" (0.95 cm) pea gravel per bag. With 10 pints (4.7L) of water, yield will increase to approximately 0.6ft³ (0.017m³). Flow will decrease significantly when including pea gravel in the mix.



ChemMasters®

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DIRECTIONS

Grouting is best accomplished at between 40°F and 90°F (4°C and 32°C). For temperatures outside that range follow the guidelines established by ACI for cold or hot weather grouting or consult ChemMasters for additional recommendations.

PREPARATION: The concrete substrate must be clean and free of any curing or sealing compounds, dust, dirt, oil or grease. The base should be textured where possible using a small chipping hammer. Presoak the substrate with water for 24 hours to prevent premature drying of the grout. Proper Curing is required. See Curing.

FORMING: Forms will be required for most grouting applications. Top edges of forms must be higher than bottom of base plate to be grouted. Seal bottom edges of forms to prevent grout from leaking. Construct forms with a gap at least 2 inches (5 cm), between form and base being grouted. Construct a head box to direct flow of grout from front to back. Allow at least a 1 inch(2.5 cm) gap at backside of form to facilitate flow and allow air to escape in front of grout flow. All forms in contact with the grout must be coated with ChemMasters' **Release** or **Safe-Slip**.

MIXING: A paddle type mortar mixer, grout pump, or heavy duty 1/2" drill with mixing prop are required. Place about 80% of required water, for desired consistency, into clean pre-wet mixer or container. Use only as much water as needed to properly place the grout do not exceed 10 pints per 50 lbs of **Gorilla Grout**. Adding excess water decreases strength and expansion. When using aggregate add it to water, do not add sand or cement to **Gorilla Grout**. With mixer blades operating, open bag, gradually empty into mixer, mix for about 1 minute, then add remaining water, and mix for 3 to 4 minutes. Following this sequence should eliminate lumping and keep mixer clean and free of excess buildup. If possible, mix enough **Gorilla Grout** in each batch to fill void completely so that there are no cold joints or air pockets. If this is not possible it may be necessary to have more than one mixer to ensure that all grout is placed quickly.

PLACEMENT: Always place grout from front to back with a steady continuous flow to push air out in front of grout flow ensuring maximum surface bearing of the plate or base. Do not vibrate grout. **Gorilla Grout** must be placed quickly and with minimal delays from batch to batch.

CURING: Proper curing is required! As soon as curing can be done without marring the surface, wet cure the exposed surface or apply a high quality curing compound, such as ChemMasters' **Polyseal**, **Polyseal A**, **Polyseal WB**, **Safe Cure 1200**, or **Safe Cure 1200 Clear**. If wet curing follow the guidelines in ACI 351, *Grouting for Support of Equipment and Machinery*.

CLEANUP: Clean tools and equipment with warm water before material dries or hardens.

STORAGE: Store in a cool dry location off the ground. Unopened bags can be stored for up to 2 years when kept dry

LIMITATIONS

- Do not apply to frost covered or frozen surfaces or at substrate or ambient temperatures below 40°F (4°C). Follow ACI 305 *Hot Weather Concreting* and 306 *Cold Weather Concreting* guidelines for placement at temperatures >90°F (32°C) or <40°F (4°C).
- ChemMasters recommends the use of ChemGrout mixers and pumps for placements under large base-plates or with a difficult configuration
- Contact ChemMasters' Technical Service Department for special recommendations on precision grouting, dry pack situations or unusual circumstances

Precaution:

DANGER: Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure if inhaled.

For professional use only
Keep out of reach of children.

Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.

This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT MATERIAL SAFETY DATA SHEET AND PACKAGE LABEL FOR THIS PRODUCT. We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.