



AMX 610 CG

Self Consolidating Core Fill Grout

Product # AMX 610CG



Yield/Coverage/Water:

Bag Size	Yield	Water
80 lb. (36.3 kg)	Yields approximately 0.57 ft ³ (0.016 m ³) Mixed per ASTM C1611 to a 24" to 30" (610 – 762mm) slump flow	5.0 – 7.0 qts. (4.7 – 6.6 L)

NOTE: Water demands shown are to be used as a starting reference. More water may be required to achieve a 24" – 30" slump flow. Avoid overwatering.

NOTE: Yield and water are approximate. The yield above does not allow for waste and spillage.

Bag Size	Block Size	Number of Blocks Filled
80 lb. (36.3 kg)	8" (200 mm) Block	2.5 to 3 Blocks
3000 lb. (1360 kg)	8" (200 mm) Block	100 to 110 Blocks

Safety:

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS sheets are available on our website Amerimix.com or you can contact CHEMTREC (24 hours availability) 800-424-9300 or contact Amerimix Technical Services at 800-334-0784.

3. TECHNICAL DATA:

Exceeds ASTM C476 Standard Specification for grout for masonry with a slump flow ranging from 24" – 30" (610 – 762mm). Testing must follow ASTM C1019 Standard Test Method for Sampling and Testing Grout which includes field testing.

ASTM C476 Property Specifications	7 Day Strengths	28 Day Strengths
ASTM C476 Minimum Strength Requirements		2,000 psi (13.8 MPa)
AMX 610CG	3,000 psi (20.7 MPa)	4,000 psi (27.6 MPa)

ASTM C1611	
Slump Flow (in.)	24 – 30
T50 (sec.)	2 – 4
VSI (0-3)	0 – 1

1. PRODUCT NAME:

Amerimix® AMX 610CG Self Consolidating Core Fill Grout - Coarse

2. PRODUCT DESCRIPTION:

Amerimix Self Consolidating Core Fill Grout – Coarse AMX 610CG is a factory blend of cementitious materials, dried aggregates and special additives. Designed as a highly flowable cementitious material to fill cores around steel reinforcement, bonding together adjacent masonry units without mechanical consolidation and segregation.

Features and Benefits:

- Meets property requirements of ASTM C476
- High Strength 4000 psi.
- Can fill cores up to 12' 8" in a single lift
- Highly Flowable
- Pumpable
- Self Consolidating/No mechanical vibrating needed

Uses:

- For load-bearing masonry units
- Structural hollow clay units
- Multi-wythe masonry structures
- Vertical reinforcing
- Reinforced Bond beams
- Horizontal reinforcing

Visual Stability Index (VSI)

The resistance to segregation is observed through a visual stability index (VSI). The VSI is established based on whether bleed water is observed at the leading edge of the spreading concrete, or if aggregates pile at the center. VSI values range from 0 for “highly stable” to 3 for unacceptable stability.

Stable		Unstable	
VSI-0	VSI-1	VSI-2	VSI-3
No bleed water No material segregation	Slight bleed water No material segregation	Significant bleed water or material segregation	Significant bleed water present and material segregation

Applicable Standards:

Standards:

- ASTM C143 Standard Test Method for Slump of Hydraulic Cement Concrete
- ASTM C150 Standard Specification for Portland Cement
- ASTM C404 Standard Specification for Aggregates for Masonry Grout
- ASTM C476 Standard Specification for Grout for Masonry
- ASTM C595 Standard Specification for Blended Hydraulic Cements
- ASTM C618 Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for use as a Mineral Admixture in Concrete.
- ASTM C1019 Standard Test Method for Sampling and Testing Grout.
- ASTM C1093 Standard Practice for Accreditation of Testing Agencies for Unit Masonry.
- ASTM C1157 Standard Performance Specification for Hydraulic Cement.
- ASTM C1314 Standard Test Method for Compressive Strength of Masonry Prisms
- ASTM C1611 Standard Test Method for Slump Flow of Self-Consolidating Concrete

Sustainability:

Amerimix products generally qualify for LEED Materials and Resources credits for Recycled Materials and Regional Materials. Contact the Amerimix area rep., Visit Amerimix.com or contact Technical Services for additional information regarding LEED qualifications for your specific product application and project location.

4. PRE-CONSTRUCTION GUIDELINES

Job Mock-Ups:

Amerimix requires that when Amerimix Self-Consolidating Core Fill Grout - Coarse – AMX 610CG is used in any application or as part of any system that includes other manufacturer’s product, the contractor and/or design professional shall test all the system components collectively for compatibility, performance, and long-term intended use in accordance with pertinent and accepted industry standards prior to any construction. Written documentation of the test performed shall

be satisfactory to the design professional and contractor. Test results must include the means and methods of application, products used, project-specific conditions being addressed, and standardized tests performed for each proposed system or variation. Approved mock ups or sample panels should be retained until completion of the project.

5. INSTALLATION

Preparation:

1. The cavities to be filled should be free of any matter that is deleterious to Portland cement product or any materials that may decompose over time such as wood, foam, paper, or organic materials.
2. Appropriate precautions for cold or hot weather construction are implemented in compliance with ACI, ASTM, or Masonry Institute Standards.
3. Protect uncoated aluminum from direct contact with Portland cement based materials.
4. Grout should be pumped or poured quickly and continuously into the cores to be filled.
5. When filling masonry units, do not exceed 12' 8" per lift.

NOTE: Good workmanship in conjunction with proper design and detailing assures durable, efficient, watertight construction.

NOTE: The optimal temperature range for grout application is between 40°F and 90°F (4°C and 32°C). Applications outside of this range is possible when appropriate precautions for cold or hot weather construction are implemented in compliance with ACI, PCA, or ASTM standards.

NOTE: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Mixing:

1. Use approximately 5.0 – 7.0 qt (4.7-6.6 L) of clean potable water per 80 lb. (36.3 kg) bag. Pour approximately ¾ of the required amount into the mixer.
2. With the mixer running, add bags of dry grout and mix thoroughly.
3. Add just enough remaining water to produce the required slump flow tested and maintained in accordance with ASTM C1611 resulting in a 24" – 28" (610 – 710 mm) range with no segregation.
4. T50 testing is also needed during the slump flow testing. T50 is the time in seconds. The slump flow must achieve a 20" (500 mm) diameter in 5 seconds or less.
5. Mix only enough Self Consolidating grout that can be poured within 1-1/2 hours.
6. For mixing from a silo, use the same approximate water ratio and follow the same procedures.

Curing:

No special curing is required. Protect from freezing for 24 hours.

Safety:

READ and UNDERSTAND the Material Safety Data Sheet (MSDS) before using this product. WARNING: Wear protective clothing and equipment. For emergency information, call CHEMTREC at 800-424-9300.

6. AVAILABILITY

Amerimix products are available throughout the US and Canada.

For more information, contact Amerimix at:

Toll-Free: 866-725-7383

Website: Amerimix.com

7. TECHNICAL SUPPORT

For technical assistance please contact us at: Toll-Free: 866-725-7383

8. WARRANTY

What Does This Warranty Cover?

The manufacturer warrants that this product shall be of merchantable quality when used or applied in accordance with the manufacturer's instructions. This product is not warranted as suitable for any purpose other than the general purpose for which it is intended. This warranty runs for one (1) year from the dates the product is purchased.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE DURATION OF THIS WARRANTY. Liability under this warranty is limited to replacement or defective products or, at the manufacturer's option, refund of the purchase price. CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY.

How Long Does Coverage Last?

This warranty lasts for a period of one (1) year from the date of purchase. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THIS EXPRESS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

What Will Amerimix Do to Address Problems?

Amerimix will replace the defective product or refund the purchase price, at its option.

What Does This Warranty Not Cover?

Amerimix will not be liable for damage or loss resulting from a failure to store, use, install or maintain the product in strict accordance with Amerimix's specifications and instructions. In no event will Amerimix be liable for damages in excess of the purchase price for the product. CONSEQUENTIAL, SPECIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

How Do I Get Warranty Service?

Within thirty (30) days after discovering a defect in the product, contact Amerimix in writing at the following address:

Amerimix Technical Support Group

625 Griffith Road - Suite 100

Charlotte, NC 28217

Include with your letter a brief description of the problem and any sales receipt, invoice or other proof of the date of purchase. To obtain Amerimix's technical or sales literature, please call (888) 313-0755 or visit our website at Amerimix.com

How Does State Law Relate to This Warranty?

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

DANGER:

This product contains Crystalline Silica and Portland Cement which are known to cause cancer, eye damage, lung disease, respiratory damage, silicosis, skin burns, and other serious medical conditions. Harmful if swallowed and corrosive.

CAUTION:

Do not handle or use this product until you review and understand the instructions, including the safety precautions. The applicable safety precautions include wearing protective clothing, protective eyewear, protective footwear, protective gloves, and respiratory protection when handling or working around this product. Protective clothing should include face protection, impervious gloves, long pants, and a long-sleeved shirt. Eye and respiratory protection must comply with the guidelines of the Occupational Health and Safety Administration (OSHA). Do not breathe or otherwise ingest the dust from this product. Wash hands and clothing after handling or working around this product. This product should only be used outdoors or in a well-ventilated area and the user should avoid creating dust. Dispose of unused concrete products in accordance with applicable law. Review the Safety Data Sheet, which is available online at www.sakrete.com, prior to handling or using this product. **KEEP OUT OF REACH OF CHILDREN.**

FIRST AID:

Seek medical attention if you experience skin burns or irritation. If you ingest this product, rinse your mouth with water and seek medical attention if you feel ill. In the event of eye irritation, remove any contact lenses and carefully rinse eyes with water for several minutes. If eye irritation persists, seek medical attention. If inhaled, relocate to an area with fresh air and seek medical attention if you feel ill.

WARNING:

This product can expose you to chemicals including Crystalline Silica, which is known to the State of California to cause cancer, and Lithium Carbonate, which is known in the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

ENVIRONMENTAL ADVISORY:

Uncured or crushed cured cement is an environmental hazard which may adversely affect fish and wildlife. Dispose of construction debris containing cement, including empty bags, at a permitted municipal disposal firm. Do not use crushed concrete as a fill near an aquatic habitat.

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