



Colored Mortar Portland / Lime OR Masonry Cement AMX 405 / 505 C

Product # AMX 405/505 C



1. PRODUCT NAME

Pre-Blended Colored Mortar – AMX 405/505 C
Portland, Lime & Sand OR Masonry Cement & Sand Formula

2. PRODUCT DESCRIPTION

Amerimix Pre-Blended Colored Mortar AMX 405/505 C is a factory blend of either Portland cement, dried sand and color pigment OR masonry cement, dried sand and color pigment engineered to provide long water retention, exceptional workability and superior bond strength over masonry substrates. Amerimix offers regional colors or can custom-match a color to fit your project requirements. The pigments are finely milled and specially mixed to ensure proper dispersion throughout the batch.

Uses

- Interior or exterior applications
- Above or below grade
- Laying or resetting brick, block and stone
- For all masonry veneer work

Packaging

Available in 80 lb (36.3 kg) bags and bulk bags.

Coverage

One 80 lb (36.3 kg) bag yields approximately .78 ft³ (0.02 m³) and will lay up to 12 concrete blocks or 36 standard bricks with 3/8" (9.5 mm) mortar joints, or 17 ft² (1.6 m²) of manufactured stone. One 3,000 lb (1,361 kg) bulk bag will lay up to 450 concrete blocks or 1350 standard bricks.

Limitations

1. The type of mortar selected should be coordinated with the type of application, type of masonry units and intended use. Mortars with lesser compressive strength should be used with softer masonry units or tuck pointing applications.
2. The optimal temperature range for mortar application is between 40°F and 90°F (4°C and 32°C). Application outside of this range

is possible when appropriate precautions for cold or hot weather construction are implemented in compliance with ACI, PCA, ASTM, IMIAC, or Masonry Institute standards.

3. Agitate material as necessary within its working time to maintain workability.
4. Do not add materials other than clean potable water.
5. Water with a high mineral salt content can cause efflorescence. Efflorescence occurs naturally and is beyond the control of Amerimix.
6. Do not overwater. Avoid adding excessive amounts of water that promote segregation or bleeding of the mortar, and loss of strength and durability.
7. Protect uncoated aluminum from direct contact with portland cement-based materials.
8. Shelf life not to exceed one year from date of manufacture.
9. Not to be used as grout for traffic bearing surfaces.
10. Type N to be used for above grade applications.

NOTE:

Amerimix Colored Mortar – AMX 405/505 C – should be installed in accordance with the provisions of applicable ASTM standards and the local building code. Always follow traditional industry best practices appropriate for the application and weather conditions. Good workmanship in conjunction with proper design and detailing ensures durable, efficient, watertight construction.

Safety

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. MSDS Sheets are available on our website Amerimix.com or contact CHEMTREC (24 hours availability) 800-424-9300 for International inquiries +01-703-527-3887, or contact Amerimix Technical Services at 888-313-0755.

3. TECHNICAL DATA

Meets or exceeds the following:

ASTM C270 Property Specification Requirements

Mortar	Average Compressive Strength Minimum psi (MPa)	Water Retention Minimum %	Air Content Maximum %
Type M	28 Days 2500 (17.2)	75	12
Type S	28 Days 1800 (12.4)	75	12
Type N	28 Days 750 (5.2)	75	12

NOTES:

- Mortar is designed to meet the requirements of ASTM C270 Standard Specification for Mortar for Unit Masonry. This is a laboratory test procedure.

- Mortar should be tested in the field by ASTM C780 Standard Test Method for Preconstruction and Construction Evaluation of Mortar for Plain and Reinforced Unit Masonry.
- Due to the procedural differences between ASTM C270 and C780, the compressive strength values resulting from field sampled mortars are not required nor expected to meet the compressive strength of the property specification requirements of C270 as tested under laboratory conditions, nor do they represent the compressive strength of the mortar in the wall.

Applicable Standards

American Concrete Institute (ACI)

- ACI 530.1 Specification for Masonry Structures

ASTM International (ASTM)

- ASTM C91 Standard Specification for Masonry Cement
- ASTM C270 Standard Specification for Mortar for Unit Masonry
- ASTM C387 Standard Specification for Packaged, Dry, Combined Materials for Mortar and Concrete
- ASTM C595 Standard Specification for Blended Hydraulic Cements
- ASTM C780 Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry
- ASTM C979 Standard Specification for Pigments for Integrally Colored Concrete
- ASTM C1093 Standard Practice for Accreditation of Testing Agencies for Unit Masonry
- ASTM C1157 Standard Performance Specification For Hydraulic Cements
- ASTM C1314 Standard Test Method for Compressive Strength of Masonry Prisms
- ASTM C1329 Standard Specification for Mortar Cement
- ASTM C1586 Standard Guide for Quality Assurance of Mortar

International Masonry Industry All-Weather Council (IMIAC)

- Recommended Practices and Guide Specifications for Cold Weather Masonry Construction
- Recommended Practices and Guide Specifications for Hot Weather Masonry Construction

National Concrete Masonry Association (NCMA)

- NCMA TEK Bulletin #8-2A Removal of Stains from Concrete Masonry
- NCMA TEK Bulletin #8-3A Control and Removal of Efflorescence

Sustainability

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

4. INSTALLATION

Preparation

1. Remove all loose particles, dirt, dust, or any foreign materials that would inhibit proper bond to brick, block, stone or masonry substrate.
2. Certain conditions may require the substrate to be SSD (saturated surface dry) conditioned such as dry windy climates, porous substrates, or high temperatures.

Job Mock Ups

Amerimix requires that when Amerimix Colored Mortar – AMX 405/505 C – is used in any application or as part of any system that includes other manufacturers' products, 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 mockups or sample panels should be retained until completion of the project.

Mixing

1. Use of a mechanical mixer will help ensure a more uniform mix.
2. Use approximately 1.5 gal (5.7 L) of clean potable water per 80 lb (36.3 kg) bag. Pour approximately 3/4 of the required amount into the mixer. For mixing from a silo, use the same approximate water ratio and follow same procedures.
3. With the mixer running, add bags of dry mortar or dispense from the silo and mix thoroughly.
4. Add additional water in small amounts as necessary to achieve optimum consistency and workability. Mix for a minimum of 5 minutes, adding enough of the remaining water to achieve a fluid workable consistency. Caution: Adding too much water will reduce strength.
5. Let mix stand for 2 minutes to enable the absorption of water and re-mix.
6. Mortar should always be mixed to a firm, moist consistency. A mix that is too dry and crumbly will not provide the proper bond. AVOID A SOUPY MIX. Mortar that is too wet will be weak and will not provide an adequate bond to the substrate.
7. Addition of cold water at high temperatures or warm water at low temperatures will aid in adjusting the set time.

Color Uniformity

1. Follow accepted good masonry practices.
2. Use clean potable water.
3. Maintain the same mix proportions from batch to batch.
4. Tool all joints when they reach the same degree of hardness.
5. Tooling when mortar is soft can lighten color, and tooling when mortar is hard can darken color.
6. The use of admixtures, particularly accelerators, is not recommended.
7. Do NOT clean color mortar joints with acid. Acid attacks cement, loosening pigments and exposing sand grains. Using an acid may cause discoloration.
8. When applying at or below grade due to wicking, color will be darker and appear uneven.

Performance Recommendations

1. Only water lost to evaporation should be replaced by re-tempering, not water lost to hydration. The re-tempering of mortar will alter color and appearance of the mortar joint and may also reduce bond and compressive strength.
2. Concave tooling of joints should be performed when mortar joint is thumbprint hard. For consistency of finish and color, joints should be struck with consistent timing, avoiding early or late tooling.

Curing

Under conditions of temperatures >80°F (27°C) low humidity and wind, loss of surface water occurs quickly. Fog spray as needed, depending upon conditions. Protect from rain and freezing for 24 hours.

Cleaning

Use water to clean all tools immediately after use. Dried material must be mechanically removed. For cleaning mortar joints, use the least aggressive solvent required to accomplish the task. Only clean potable water should be used in the cleaning process.

5. AVAILABILITY

Amerimix products are available throughout the U.S. and Canada.

For information please contact Amerimix at

Toll Free: 888-313-0755

Website: Amerimix.com

6. TECHNICAL SUPPORT

For technical assistance please contact us

Toll Free: 888-313-0755

7. WARRANTY

LIMITED WARRANTY

What Does This Warranty Cover? Amerimix warrants that this product will (a) be free from defects in material and workmanship, and (b) conform to specifications set forth in Bonsal American's product literature at the time of manufacturer.

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
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 web site 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.

WARNING - INJURIOUS TO EYES. CAUSES SKIN IRRITATION.

This product contains portland cement and silica sand. Avoid contact with eyes and skin. Do not take internally. Crystalline silica sand may cause serious lung problems. Avoid breathing dust and wear a respirator in dusty areas. Contact with wet unhardened concrete, mortar, cement or cement mixtures can cause skin irritation, severe chemical burns or serious eye damage. Wear waterproof gloves, a fully buttoned long-sleeved shirt, full-length trousers and tight fitting safety goggles. If you have to stand in wet product, wear waterproof boots high enough to keep product from getting inside. If working on hands and knees, wear kneepads. Indirect contact through clothing can be as serious as direct contact. Promptly, rinse out wet product from clothing.

California Proposition 65: This product contains Crystalline Silica, Quartz and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS.

FIRST AID: Eye Contact: Flood eyes with water for at least 15 minutes and consult a physician immediately. DO NOT RUB EYES. Skin Contact: Wash exposed skin area with soap and water. Consult a physician if irritation persists. Inhalation: Remove to fresh air. Ingestion: Immediately consult a physician.

For additional information, call Amerimix at 888-313-0755 or CHEMTREC at 800-424-9300 or 703-527-3887 outside of the USA. Refer to Safety Data Sheet (SDS) for further information.

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.