



AMERIMIX®

AMX 330 Structural Mortar 4000 psi

Product # AMX 330

1. PRODUCT NAME:

AMX 330 Structural Mortar 4000 psi

2. PRODUCT DESCRIPTION:

Amerimix Structural Mortar 4000 psi is a blend of hydraulic cement, reinforcing fibers, special additives and a graded masonry sand. When mixed with water, it produces a structural mortar that can be trowel or spray applied.

Features and Benefits:

- High Fiber content for superior crack and shrinkage reduction
- Can be layered
- Low slump
- Multi-Purpose – for concrete/masonry structural patching
- Excellent bond to concrete and masonry

Uses:

- Structural repairs
- Vertical and Overhead repairs
- Bridge repairs
- CMU/Concrete

Approximate Coverage:

Bag Size	Coverage	Water
50 lb. (kg)	0.45 cu. ft. (L)	3.7 – 3.8 qt (3.5 – 3.8L)

Yield and water are approximate.

3. TECHNICAL DATA:

Applicable Standards:

Meets published technical performance when following and mixed in accordance to ASTM C387 with a Plastic consistency.

Compression Strength ASTM C 109 – Standard Test Methods for Compressive Strength of Hydraulic Cement Mortars

7 Days	>3,000 psi
28 days	>4,000 psi

ASTM C1437 Standard Test Method for Flow of Hydraulic Cement Mortar

Working Time	1.5 hours
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NOTE: Test results obtained under controlled laboratory conditions at 73°F (22.7°C) and 50% relative humidity. More or less water may be required to achieve the desired mixing consistency depending on the atmospheric conditions and job site conditions. Do not exceed 3.7 – 3.8 qt (3.5 – 3.8L) water per 50 lb. (22.7 kg) bag.

DIVISION 3

Maintenance of Concrete
03 01 00

LEED Eligibility:

- Regional Materials (MR-c5)
- Recycled Material (MR-c4)

COLOR: Gray

4. INSTALLATION

Preparation:

For best results all materials should be stored between 50°F (10°C) and 90°F (32°C) 24 hours prior to installation.

1. Use only when the product, air, and surface temperature are above 50°F (10°C) for a minimum of 24 hours.
2. Surfaces must be sound. Clean area and remove all unsound concrete, grease, oil, paint, and any other foreign material that will inhibit performance. Abrade concrete to obtain a rough surface promoting adhesion.
3. Completely expose and clean all reinforcement steel, ensuring a minimum clearance of ¾" (19 mm) behind reinforcing steel.
4. Perform reinforcing steel preparation in accordance with International Concrete Repair Institute Technical Guideline No. 03730.
5. Surface should be brought to a saturated surface dry (SSD) condition with clean potable water.
6. Wood form work or other absorbent forms should be coated with a form release oil to prevent material adherence and water absorption.
7. Floors/walls must be structurally sound, free from movement and dimensionally stable.

Placement:

1. Do not apply over concrete cured less than 28 days or that is frozen or contains frost.
2. Do not bridge over existing expansion or control joints.
3. Immediately place the mixed material over the properly prepared area ensuring full contact with all bonding surfaces.
4. Float and finish surface with a trowel or float to desired final profile.

5. Spraying should be followed by floating with pressure to ensure adequate compacting of the Structural Mortar and bonding to the host substrate.
6. Standard concrete finishing and curing practices should be followed as described in ACI Manual of Concrete Practice.
7. Protect from freezing for a minimum of 24 hours.

Refer to: ACI 308 Standard practice for curing concrete.

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

For installation where acids and sulfates are present, a protective coating is required. Protect uncoated aluminum from direct contact with Portland cement-based materials.

Refer to:

ACI 306R Cold Weather Concreting

ACI 305R Hot Weather Concreting

Mixing:

1. Only mix with clean potable water. The water quantities shown are approximate and may vary slightly with the type of equipment and application conditions.
2. Water demand and mix temperature must be determined using standard test methods for consistency and temperature measurement at the time of application.
3. Place $\frac{3}{4}$ of desired mixing water, start mixer then slowly add the dry material. After all of the powder has been added, slowly add the remaining $\frac{1}{4}$ water until the desired consistency is achieved.
4. Avoid adding excessive amounts of water that promotes segregation and bleeding.
5. Mix for 2-3 minutes to ensure a uniform lump free consistency and place immediately

Precautions:

Air, mix and substrate temperatures should be between 40° F (4° C) and 90° F (32° C). For applications outside this range of temperatures and conditions, contact Amerimix Technical Service.

- Colder temperatures or higher humidity conditions will retard set times
- Do not use in applications of high dynamic loading
- Do not retemper by adding water.
- Do not add accelerators, retarders, plasticizer or other additives.

NOTE: Proper application and installation of all Amerimix products are the responsibility of the end user.

Safety:

READ and UNDERSTAND the Safety Data Sheet (SDS) before using this product. WARNING: Wear protective clothing and equipment. For emergency information, call CHEMTREC at 800-424-9300 or 703-527-3887 (outside USA). KEEP OUT OF REACH OF CHILDREN.

Limited Product Warranty:

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.