

Industrial Mortar Mix

BONSAL® Industrial Mortar Mix is a mixture of masonry cement and sand.

FEATURES AND BENEFITS:

- Just Add Water
- Eliminates Problems of Job-Mixed Mortar and Stucco
- Meets ASTM C 270 Specifications for Types N, S, or M Mortar
- Meets ASTM C 926 Specification for Application of Portland Cement-Based Plaster
- Better Inventory Control
- Consistent Yield
- Can be Stored Near the Job Site
- Consistent Quality
- Type M Meets ASTM C 476 Fine Grout for Masonry

USES:

Lay

- Brick
- Block
- Structural Clay Tile
- Stone

Apply

- Scratch
- Brown
- Finish Coat Stucco

PREPARATION:

Clean area and remove all unsound concrete, grease, oil, paint, and any other foreign materials that will inhibit performance. Slick or sealed surfaces must be thoroughly roughened.

Refer to:

- ASTM D 4261 Surface Cleaning Concrete Unit Masonry for Coating
- ASTM D 4258 Surface Cleaning Concrete for Coating
- ASTM C 4259 Abrading Concrete

Scratch and brown coats should be cured evenly (at least overnight) and firm enough to receive the finishing plaster. Dampen all porous surfaces before application. See ASTM C 926 for complete details on preparation.

MIXING:

Mortar or Stucco

When used as a scratch, brown, and finish coat stucco, empty contents of entire bag of Industrial Mortar and combine with 1 1/2 gallons (5.7 l) of clean water per 80 lb. (36.3 kg) bag in a mortar or plaster mixer. BONSAL Acrylic Additive or BONSAL 118 Primer/Admixture is recommended when application conditions of drying wind, low humidity, highly absorptive substrates, or high temperature is present.

MIXING (Cont.):

Over either porous or non-absorptive substrates, modify the mix by replacing 1/2 gallon (1.9 l) of water with 1/2 gallon (1.9 l) of BONSAL Acrylic Additive or 118 Primer/Admixture. Higher levels may be necessary in severe application and curing conditions. Avoid over mixing.

Use within 2 hours of mixing. Re-tempering will reduce strength. Wind, temperature, and absorption rate of the substrate affects performance.

NOTE:

Water with high mineral salt content can cause efflorescence. Efflorescence occurs naturally and is beyond the control of *The W.R. Bonsel Company*

PLACEMENT:

Stucco

Install in accordance with Building Code Requirements, ASTM C 926 Standard Specification for Portland Cement-Based Plaster, project requirements, and this product literature.

Mortar

Install in accordance with Building Code Requirements, ACI 530-1-88/ASCE-6-88, Specifications for Masonry Structures, NCMA publication Building Block Walls, project requirements, and this product literature.

Placement Temperature

	Minimum	Maximum
Substrate	40°F (4.4°C)	90°F (32.2°C)
Mix	50°F (10°C)	70°F (21.1°C)
Air	40°F (4.4°C)	90°F (32.2°C)

CURING:

Under conditions of high temperature (80°F) (26.6°C), low humidity, and wind, loss of surface water occurs quickly. Fog spray as needed, depending upon conditions. Protect from rain for 24 hours.

As with all Portland Cement based materials, surface cracking may occur due to curing conditions, control joint configurations, over watering, over troweling, or other conditions beyond the control of *The W.R. Bonsel Company*.

TECHNICAL DATA:

Industrial Mortar Mix is manufactured to meet strength specifications for mortar of the following types:

Compressive Strength

ASTM C 270 (28 days)

Type M	2500 psi (17.2 Mpa)
Type S	1800 psi (12.4 Mpa)
Type N	750 psi (5.17 Mpa)

ASTM Mortar Type Designation/Construction Suitability:

Type M

Masonry subjected to high compressive loads, severe frost action, or high lateral loads from earth pressures, hurricane winds or earthquakes. Structures below grade, manholes, catch basins and swimming pools.

Type S

Structures requiring high flexural bond strength, but subject only to normal compressive loads.

Type N

General use in above grade masonry. Residential basement construction, interior walls and partitions. Concrete masonry veneers applied to frame construction.

COLORS:

Grey. Cement colors may be used on the job.

Technical Assistance

Charlotte, NC
(800) 334-0784

LIMITATIONS:

- **DO NOT** apply when air or substrate temperature is below 40°F (4.4°C) or above 90°F (32.2°C).
- **DO NOT** apply when air or substrate temperature is expected to fall below 40°F (4.4°) within 48 hours.
- **DO NOT** add more than one pound of cement color per bag.
- **DO NOT** apply over substrates that are frozen or contain frost.
- **DO NOT** over water.

COVERAGE:

One 80 lb. (36.3 kg) bag 2/3 cu. ft. (0.02m³) lays 27 standard concrete block or 65 standard brick with a 3/8" (0.95 m) mortar joint. When used in stucco applications, one bag covers approximately 70 sq. ft. (6.5 m²) when applied at 1/8" (3.1 mm) thickness.

PACKAGING:

80 lb./36.3 kg multiply bag

SHELF LIFE:

One year from date of manufacture.

INSPECTIONS:

The W.R. Bonsal Company Sales Representatives do not make jobsite inspections. If an inspection is needed, please contact Bonsal Technical Service at 1-800-334-0784 to discuss inspection process.

CAUTION: Contains Silicon Dioxide, Calcium Hydroxide, and Portland Cement.

Your skin may be sensitive to cement. Wearing rubber gloves is recommended. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water. For eyes, flush with clean water for at least 15 minutes and get prompt medical attention.

KEEP OUT OF REACH OF CHILDREN.

Home Office

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LIMITED WARRANTY: W.R. Bonsal Company ("Bonsal") warrants that this product and the materials used therein meet or exceed the applicable standards listed and enforced at the time of manufacture. Bonsal will replace any product or part which proves defective due to quality of ingredients used or due to the manufacturing process itself. This Warranty shall apply only if the product is used in strict accordance with applicable specifications and instructions provided by Bonsal for its use, and Bonsal shall not be liable otherwise. Replacement of any defective product, or, at Bonsal's option, refund of the purchase of any defective product shall be the buyer's sole remedy under this Warranty, and Bonsal shall in no event be liable for any damages in excess of the purchase price of the defective product. **BONSAL SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES.**

This Warranty constitutes the sole warranty given by Bonsal in connection with this product, and Bonsal has authorized no person to make or give any other warranties or representation, oral or written on its behalf. **IN PARTICULAR, THERE ARE NOT IMPLIED WARRANTIES, INCLUDING WITHOUT EXCEPTION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No modification of this Warranty in favor of any buyer shall be valid unless given in writing and signed by an officer of Bonsal.

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