



Metro Mix 240 AE



Title: Divisions 3 Concrete
Sub-Title: High Strength Concrete

BONSAL® Metro Mix 240 AE is an air entrained mixture of sand, coarse aggregate and hydraulic cement.

FEATURES AND BENEFITS:

- Corrosion Inhibitor
- Air entrained for Freeze-Thaw Resistance
- Exceeds ASTM C 387
- Economical
- Just add water & mix
- Convenient
- No mixer holding time
- No waiting for a mixer truck
- Low Shrinkage
- High Strength
- For Structural Applications
- Full depth repairs
- Pumpable
- No short load charges

USES:

- Where Freeze-Thaw resistant concrete is needed
- Slabs
- Parking Garages
- Industrial Floors
- Balconies
- Bridge Decks
- Runways
- Highways

SAFETY:

Read and understand the Material Safety Data Sheet (MSDS) before using this product. **KEEP OUT OF REACH OF CHILDREN.**

PREPARATION:

All concrete surfaces must be structurally sound. Remove all unsound concrete and surface contaminant's such as oils, grease or paint. Existing rebar may need to be treated or replaced depending on condition. All areas to be repaired should be saw cut. Areas to be patched with BONSAL Metro Mix 240 AE must be a minimum of 2 inches deep. Flush entire repair with water to remove all remaining debris. Remove any standing water.

MIXING:

The use of a mechanical mixer is recommended. For each 80 lb. (36.2 kg) bag of BONSAL Metro Mix 240 AE add up to 3 1/2 quarts (3.3 L) of clean water. Mix thoroughly for 2 to 5 minutes. Clean mixer often to prevent a build up of material.

PLACEMENT:

Immediately place the blended BONSAL Metro Mix 240 into the properly prepared area. Always place BONSAL Metro Mix 240 AE in full depth, working from one side of the repair area to the other, maintaining a minimum thickness of 2 inches. Be sure the BONSAL Metro Mix 240 has been properly compacted to eliminate voids. Forms may be removed after 24 hours.

REV 6/05 Supersedes Previous Editions

PLACEMENT (Cont.):

The air, mix and substrate temperatures should all be between 40° F (4.4°C) and 90° F (32.2°C). Protect from freezing for a minimum of 24 hours.

FINISHING & CURING:

Standard concrete finishing and curing practices should be followed as described in ACI Manual of Concrete Practice.

TECHNICAL DATA: Typical Results

Exceeds ASTM C 387 when used as directed

Compressive Strength

ASTM C 39

1 day	2,000 psi (14 MPa)
7 days	5,000 psi (34 MPa)
28 days	6,000 psi (41 MPa)

Length Change

ASTM C 157

Dry	-0.04
Wet	+0.019

Freeze Thaw Resistance

ASTM C 666-A

Greater than 95% Durability Factor

Design Air Content

6% ± 1.5

LIMITATIONS:

- DO NOT** add aggregate.
- DO NOT** over water.
- DO NOT** use below 40° F (4.4°C).
- DO NOT** use for repairs less than 2 inches thick.
- DO NOT** install over frozen substrates.
- DO NOT** mix more material than can be placed in 1 hour.
- DO NOT** mix with anything but potable water.

YIELD:

80 lb. (36.2 kg) Bag = 0.61 cu. ft. (0.016 cu. m)
142 lbs. /cu ft. (2274 kg/cu. m)

PACKAGING:

80 lb. bag (36.2 kg) multiply bag

SHELF LIFE:

One year from date of manufacture.

Technical Service
1-800-334-0784

WARNING: MAY BURN OR IRRITATE EYES AND SKIN

Avoid contact with eyes and skin. This product contains hydraulic cement. When mixed with water it results in a solution that is highly alkaline and may burn or irritate the eyes or skin. Wear safety glasses or goggles, protective clothing, shoes and gloves. Do not take internally.

Avoid breathing dust. This product contains crystalline silica. Prolonged exposure to crystalline silica dust is known to cause lung cancer or delayed lung injury, including silicosis. Take measures to eliminate or control dust. For prolonged exposure to dust wear a respirator approved for protection against crystalline silica dust. Crystalline silica has been classified by the state of California, IARC and NTP as a carcinogen.

First aid. If swallowed drink one or two glasses of water to dilute. Do not induce vomiting unless directed to do so by medical personnel. Get immediate medical attention. In case of eye contact, flush eyes thoroughly with clean water for a minimum of 15 minutes and get prompt medical attention; for skin contact wash with soap and water.

Read the MSDS prior to use. For additional information call Bonsal American at 704-525-1621 or CHEMTREC at 800-424-9300 or 703-527-3887 outside of the USA.

Warning: If you scrape, sand or remove old paint, you may release lead dust. Lead is toxic. Exposure to lead dust can cause serious illness such as brain damage, especially in children. Wear a NIOSH approved respirator. Clean up carefully with a HEPA vacuum and a wet mop. Find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Warning Label 1: Hydraulic cement products, Rev. Feb 2004

LIMITED 1 YEAR WARRANTY FROM THE DATA OF MANUFACTURE: Bonsal American warrants that this product and the materials used therein meet or exceed the applicable standards listed and enforced at the time of manufacture. Bonsal American 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 American for its use, and Bonsal American shall not be liable otherwise. Replacement of any defective product, or, at Bonsal American's option, refund of the purchase of any defective product shall be the buyer's sole remedy under this Warranty, and Bonsal American shall in no event be liable for any damages in excess of the purchase price of the defective product. BONSAL AMERICAN SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES.

This Warranty constitutes the sole warranty given by Bonsal American in connection with this product, and Bonsal American has authorized no person to make or give any other warranties or representation, oral or written on its behalf. IN PARTICULAR, THERE ARE NO 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 American.



BONSAL® is the registered trademark of Bonsal American
8201 Arrowridge Blvd., Charlotte, NC 28273
www.bonsalamerican.com

E-Mail: commercialproducts@oldcastleapg.com