



packaging

crack-resistant concrete mix



1. Product Name

ASH GROVE® Crack-Resistant Concrete Mix
Product Number: 302

2. Manufacturer

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3. Product Description

ASH GROVE® Crack-Resistant Mix is designed for exterior applications where freeze-thaw conditions may occur. Synthetic reinforcing fibers eliminate the need for reinforcing wire mesh or rebar in non-critical applications.

BASIC USE:

Recommended for construction or repair of:

- Patios
- Slabs
- Curbs
- Steps
- Walkways
- Footers
- Setting posts and poles

COMPOSITION & MATERIALS:

ASH GROVE® Crack-Resistant Mix is a uniformly blended mixture of portland cement, sand, rock, reinforcing fibers and other special additives specifically engineered to provide superior resistance to cracking and shrinking.

4. Advantages/Benefits

ASH GROVE® Crack-Resistant Mix has several advantages including:

- Suitable for interior or exterior use
- High durability and impact resistant
- Uniformly pre-blended mixture requires no dry mixing
- Synthetic reinforcing fibers and air entraining agents for crack resistance eliminate the need for wire mesh
- Excellent for freeze-thaw conditions
- Excellent workability

5. Preparation

All surfaces that will be in contact with ASH GROVE® Crack-Resistant Concrete Mix must be entirely free from oil, grease, or any other foreign substances which may interfere with the bond and chemical actions of the material. Prior to application, dampen the exposed surfaces and clean thoroughly with potable water, leaving the concrete saturated but free of standing water.

6. Mixing Instructions

For Posts & Poles:

ASH GROVE® Crack-Resistant Concrete Mix does not require mixing for non-load bearing posts.

Prepare a hole that is 3 times the diameter and 1/3 the length of the post or pole to be installed. Compact the bottom and sides of the hole. Pour a 4" layer of dry concrete mix directly into the posthole and then insert the post in the center of the posthole. The concrete poured into the posthole can be wet or dry (with the water being added after placement in post hole).

For Slabs, Curbs, etc.:

Pour the dry cement-based material into a wet mixing container. Add water slowly, mixing thoroughly until concrete reaches a 'plastic-like' consistency. Avoid a 'soupy' mix; too much water will weaken the concrete.

For large projects a concrete mixer is recommended. If a mixer is used, mix dry contents thoroughly with water for 4 to 5 minutes to achieve 'plastic-like' consistency.

For colored concrete, ASH GROVE® Cement Color can be added and mixed thoroughly into the dry cement-based material prior to adding water to achieve decorative and creative colors. Available colors are red, black, buff and brown.

7. Placement

Starting in a corner, shovel or pour concrete into a dampened form. Do not drag or flow the concrete unnecessarily. Uniformly fill to depth of form, completely filling the form area.

Strike off and float immediately with a straight edged board, such as a 2x4 board, by moving the board back and forth across the surface in a sawing motion. Level off any remaining surface ridges and/or imperfections with a darby or bull float. Allow concrete to stiffen slightly, making sure all surface water has evaporated before troweling.

8. Curing

For proper curing keep the new concrete surface covered and damp for five to seven days after pouring or simply apply ASH GROVE® Cure & Seal by spraying or rolling after the concrete surface has hardened but is still damp. If ASH GROVE® Cure & Seal is applied to the new surface then covering is not needed. (Note: ASH GROVE® Cure & Seal is not recommended for use under cold weather conditions.)

Properly moistened and cured concrete is stronger than air cured concrete. After concrete has cured, remove forms. In cold weather, use warm water and protect concrete from



crack-resistant concrete mix (cont.)

freezing for at least 48 hours using plastic sheeting and insulation blankets if temperatures are expected to fall below 32°F.

9. Technical Information

ASTM SPECIFICATIONS:

- Meets requirements of ASTM C-387 specifications when used as directed.

COMPRESSIVE STRENGTH:

- 7 days 3,000 psi (20.0 Mpa)
- 28 days 5,000 psi (34.0 Mpa)

SLUMP:

- Slump range is 2" - 3".

10. Limitations

Adhering to recommended water additions is very important. Exceeding the maximum recommended water content per bag will result in inferior physical properties.

Concrete will not bond well to wood, asphalt, or any other foreign substances.

For applications less than 2" thick, use ASH GROVE® Sand Mix.

Do not place when temperatures are below 40°F. In cold weather, use warm water and protect from freezing for 48 hours.

11. Coverage

One 80 lb. bag (36.29 kg) yields approximately 2/3 cu. ft.

2/3 cu. ft. 80 lb. bag (36.29 kg)

12. Warning

ASH GROVE® Crack-Resistant Mix contains portland cement and sand. Normal safety wear such as protective clothing, boots, rubber gloves, dust masks, eye safety glasses should be worn while handling cement-based products. Material Safety Data Sheets are available upon request or at www.ashgrovepkg.com.

13. Limited Warranty

This product meets or exceeds applicable ASTM C-387 standards in force at the time of packaging. Packager, having no control over the use of the material, does not guarantee finished work. Replacement of any defective product or refund of the purchase price of defective product shall be the buyer's sole remedy under this warranty.

THIS LIMITED WARRANTY EXCLUDES ANY LIABILITY FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT OR SPECIAL DAMAGES.

EXCEPT FOR THE LIMITED WARRANTY MADE ABOVE, PACKAGER SPECIFICALLY DISCLAIMS AND EXCLUDES ANY OTHER EXPRESS WARRANTY, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF

GOODS AND ANY IMPLIED WARRANTY OF FITNESS OF GOODS FOR ANY PARTICULAR PURPOSE.