



**packaging**

## fly ash

### 1. Product Name

ASH GROVE® Fly Ash  
Product Number: 175

### 2. Manufacturer

ASH GROVE PACKAGING GROUP  
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### 3. Product Description

ASH GROVE® Fly Ash improves workability, water retention, strength, and durability when used in concrete, mortar, and stucco mixes. ASH GROVE® Fly Ash replaces up to 25% of the portland or masonry cement in cement mixes. It can also be combined with soils for use in soil stabilization.

#### BASIC USE:

Recommended for construction applications such as:

- Enhancing concrete, mortar or stucco mixes
- Setting light duty posts and poles
- Soil stabilization

#### COMPOSITION & MATERIALS:

ASH GROVE® Fly Ash, a by-product of coal burning power plants, is used to enhance the performance characteristics of portland and masonry cement mixes.

The type of coal used determines exact physical and chemical properties of fly ashes. ASH GROVE® Fly Ash is categorized as Class C. Class C fly ash typically comes from coals that produce an ash with higher lime content.

### 4. Advantages/Benefits

ASH GROVE® Fly Ash has several advantages including:

- Providing mixes where higher early strengths are needed
- Providing a cost-effective alternative to soil stabilization since additional lime is not required
- High durability and impact resistant
- Improved flowability of cement mixes
- Flexibility in mix designs providing range of strengths
- Uniform aggregate sizes ensure easier mixing

### 5. Preparation

Before starting any project, it is recommended that testing be conducted to determine optimum fly ash replacement percentages at varying cement contents along with water requirements and additions of other aggregates such as sand. Doing so will ensure that desired levels of



workability, strength, and water retention are met and are suitable for the project.

### 6. Mixing Instructions

Substitute up to 25% of the portland or masonry cement used in cement, mortar or stucco mixes with ASH GROVE® Fly Ash.

### 7. Technical Information

#### ASTM SPECIFICATIONS:

- Meets requirements of ASTM C-618 specifications when used as directed.

### 8. Limitations

Additions of ASH GROVE® Fly Ash will affect the performance of concrete mix. Thus, it is important to perform tests to determine suitability of the mixture.

### 9. Warning

ASH GROVE® Fly Ash contains fly ash. 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](http://www.ashgrovepkg.com).

### 10. Limited Warranty

This product meets applicable ASTM C-618 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.

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