



packaging

pro self-leveling wear topping

1. Product Name

ASH GROVE PRO® Self-Leveling Wear Topping

2. Manufacturer

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3. Product Description

ASH GROVE PRO® Self-Leveling Wear Topping is a Portland cement-based blend formulated as a self-leveling and self-finishing concrete floor overlayment and resurfacer.

BASIC USE:

Recommended for a wear surface over concrete:

- Parking Decks
- Loading Docks
- Tarmacs
- Warehouses
- Factories
- Institutional Facilities
- Communication Facilities

COMPOSITION & MATERIALS:

ASH GROVE PRO® Self-Leveling Wear Topping is a polymer modified blend containing portland cement, graded silica sands, accelerators and proprietary raw materials uniformly blended to produce a mixture that is easily pumped or poured out to level an existing concrete floor.

4. Advantages/Benefits

ASH GROVE PRO® Self-Leveling Wear Topping has several advantages and features including:

- Wear Surface
- Interior or Exterior
- Self-Leveling Capabilities
- Open to Light Traffic in Four Hours
- Pumpable
- Weather Resistant
- Freeze Thaw Resistant
- Mildew Resistant
- Stronger than Concrete
- Greater Abrasion Resistance than Concrete
- Water Resistant

5. Preparation

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

ASTM D 4258 [Surface Cleaning Concrete for Coating](#)

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ASTM D 4259 [Abrading Concrete](#)

ASTM D 4280 [Measuring Delaminations in Concrete Bridge Decks by Sounding](#)

ACI 201.1R [Guide for Making a Condition Survey of Concrete in Service](#)

ACI 201.3R [Guide for Making a Condition Survey of Concrete Pavements](#)

ACI 224.1R93 [Causes and Repair of Cracks in Concrete Structure](#)

ICRI [Surface Preparation Guidelines for Repairs of Deteriorated Concrete Resulting from Reinforcing Steel Oxidation](#)

Repair areas over 1" in depth with ASH GROVE PRO® Fast Patch or ASH GROVE PRO® Vinyl Patch. Allow the repair products to cure at least three hours before applying ASH GROVE PRO® Primer/Admix.

Absorbent concrete will require two applications of the diluted ASH GROVE PRO® Primer/Admix to avoid bubbles, pinholes and reduce flow of the Self-Leveling Wear Topping. To determine if 1 or 2 applications are needed, apply a 1:1 dilution of the ASH GROVE PRO® Primer/Admix. If the primer turns clear in approximately 30 minutes under the recommended temperatures, two coats are needed. Allow the first coat to dry before applying the second coat.

Place the test area with the same tools and procedures as will be used in the actual construction.

Install a minimum of 50 sq. ft. in a high traffic area to cure for at least 3 days. Evaluate the test area for adhesion, appearance and suitability for the intended use.

Install a bond breaker where vertical surfaces meet the new topping. Extend existing expansion and control joints in the concrete through the topping cement.

Note: Self Leveling Wear Topping will not correct or compensate for a structurally defective substrate. Faults in the substrate can appear in the Self-Leveling Wear Topping. The use of alkali resistant glass fabric or galvanized metal reinforcing (Federal Specification QQL 101C) can be helpful in reducing reflective cracking.

Mix the ASH GROVE PRO® Primer/Admix in a 1:1 ratio with water. One gallon of ASH GROVE PRO® Primer/Admix diluted with 1 gallon of water will cover 500-800 sq. ft. Apply the diluted primer with a soft push broom or roller. A thin uniform application (4-6 wet mils) will perform better than a thick film, which forms a rubbery surface resulting in cracking of the Self-Leveling Wear Topping.

Allow the primer to dry for 1 to 3 hours, but not more than 24 hours. If primer is permitted to dry beyond 24 hours, reapply the primer.

6. Mixing Instructions

Mix only the amount that can be applied in 15 minutes. The product will remain fluid for about 15 minutes. Mix up to 4 1/2 quarts clean water to the mixing container for each 50 lb. bag of ASH GROVE PRO® Self Leveling Wear Topping. As temperature rises above 70°F, working time



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will decrease. Over watering and over mixing will affect the strength, abrasion resistance and may cause cracking or surface defects.

Installations of less than 1,000 sq. ft. are usually done by the "mix and spill" method. This involves mixing the material with a drill mixer- generally 2 bags at a time.

Once the water has been placed in the mixing drum, gradually add the ASH GROVE PRO® Self-Leveling Wear Topping to the mixing water and mix until material is wet, free of lumps and of flowable consistency. Mix for about 2 minutes. In temperatures above 80°F, use cold water to retard the set. Use a high torque electric drill with 450 RPM maximum and self-leveling mixing blade. For applications over 1000 sq. ft. using a progressive cavity (rotor stator tube) grout pump is recommended.

For applications greater than 1", extend the ASH GROVE PRO® Self-Leveling Wear Topping by adding up to 20 lbs. of clean, graded 3/8" damp aggregate per 50 lb. bag. Mix the product per instructions, and then add the aggregate. If the aggregate is damp, no additional mixing water will be needed. If the aggregate is dry, up to 1 pint of mixing water may be needed to obtain material flow characteristics.

Addition of aggregate reduces the working characteristics of the material. It may be necessary to apply a finish layer the next day as a final coat. ASH GROVE PRO® Primer/Admix must be applied before the finish layer of ASH GROVE PRO® Self-Leveling Wear Topping.

7. Placement

Placement temperature

	Minimum	Maximum
<u>Substrate</u>	50°F	80°F
<u>Mix</u>	60°F	80°F
<u>Air</u>	50°F	90°F

Use a spreader tool to pull the Self-Leveling Wear Topping into place. Troweling is not recommended. Divide the area to permit continuous placement without cold joints. To prevent ridges between batches, use the smoother tool and work a narrow dimension. Self-Leveling Wear Topping will rapidly adapt to the temperature of the substrate and the environment.

Application thicknesses down to 1/16" are acceptable at points of termination. Most applications are 1/4" to 1/2" in thickness.

8. Curing

Protect from freezing and sudden rain for 24 hours. Air and surface temperature of the substrate will affect the working time and method of curing needed.

9. Technical Information

COMPRESSIVE STRENGTH (ASTM C-109):

- Air Cured 6 hours.....1,700 psi
- Air Cured 24 hours.....3,500 psi
- Cured 7 days.....4,000 psi
- Cured 28 days.....5,000 psi

CURE TIME vs. MOISTURE CONTENT:

- 24 hours..... 14.6%
- 3 days..... 14.5%

- 7 days..... 13.2%
- 28 days..... 8.2%

10. Limitations

- Do not trowel
- Do not apply over substrates that are frozen or contain frost
- Do not re-temper
- Do not use without primer
- Do not coat with materials that will trap water in the substrate
- Do not over Mix
- Do not use over 1" thick without adding 1/8" aggregate
- Do not add more than 4 1/2 qts. of water per bag
- Do not use curing compounds if topping is to receive floor covering

11. Coverage

One 50 lb. bag (22.68 kg) covers 20 – 23 sq. ft. @ 1/4"

12. Warning

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

13. Limited Warranty

This product meets or exceeds applicable ASTM 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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