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# **ARDEX PANDOMO® ES**

## **Clear Waterborne Epoxy Floor Primer**

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**Use as a system with ARDEX PANDOMO® PS Urethane Protective Wear Layer to seal and protect ARDEX PANDOMO® Floor, FloorPlus and Loft**

**Two-part, waterborne epoxy primer for ARDEX PANDOMO PS**

**Apply top coat of ARDEX PANDOMO PS in as little as 4 hours**

**For interior use only**

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# ARDEX PANDOMO® ES

## Clear Waterborne Epoxy Floor Primer

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### Usage and Description

ARDEX PANDOMO® ES is a waterborne, two-part epoxy floor primer for interior use over ARDEX PANDOMO Floor, FloorPlus and Loft. Designed to penetrate porous surfaces, ARDEX PANDOMO ES serves as a fast-drying base coat for the subsequent installation of two coats of ARDEX PANDOMO PS Clear Waterborne Two-Part Urethane Protective Wear Layer.

### Subfloor Preparation

No special preparation is necessary prior to installing ARDEX PANDOMO ES over newly installed ARDEX PANDOMO surfaces. The ARDEX PANDOMO installation must be fully cured, and the surface must be clean, dry and free of contaminants. The surface can be swept with a clean broom to remove dust or debris. Do not use sweeping compounds or other chemicals. If other contamination is present, please contact the ARDEX Technical Department. Surface and air temperatures must be between 55°F (13°C) and 77°F (25°C) for the installation of ARDEX PANDOMO ES. The substrate temperature must also be 5°F (2.8°C) away from the dew point and rising to avoid condensation as the ARDEX PANDOMO ES cures. These conditions must be maintained during the full application and cure of the system.

### Recommended Tools

1/4" - 3/8" nap lint-free paint roller, foam brush, epoxy mixing paddle, low speed drill and a paint pan.

### Mixing and Application

ARDEX PANDOMO ES is supplied as a two-part unit containing pre-measured quantities of Resin (Part A) and Hardener (Part B). Each unit should be premixed prior to blending together. When mixing full units, open each container and pour all of Part B into the container holding all of Part A. When mixing partial units, always mix at a ratio of 1 part Hardener (B) to 4 parts Resin (A), adding the Hardener to the Resin. Mix completely with the low speed drill and mixing paddle until streak-free and totally uniform in appearance.

Within 2 hours after mixing, apply the material uniformly onto the prepared surface at a rate of approximately 250 to 300 square feet (23 to 28 m<sup>2</sup>) per unit (5 to 7 mils wet, or 127 to 178 microns). Always apply wet on wet, but avoid leaving puddles. When cutting in edges, do not allow the edges to dry before applying material to the plane of the application. Use a paint pan rather than pouring the sealer directly onto the floor surface. When the end of the pot life has been reached, the material will become tacky and difficult to apply. Should this occur, discard and continue the application with freshly mixed material.

Allow the ARDEX PANDOMO ES to dry for a minimum of 4 to 6 hours before top coating with ARDEX PANDOMO PS Protective Wear Layer. To test for readiness, press on the coating with your thumb. If no fingerprint impression is left, the ARDEX PANDOMO PS application can begin. Also, check the previous coat to ensure no epoxy blush developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed using a standard-type detergent cleaner before recoating. Install the ARDEX PANDOMO PS in accordance with the ARDEX PANDOMO PS Technical Brochure.

### Tips for a Successful Installation

- Cleanliness is important! Wear protective booties over shoes to prevent marking.
- Do not place containers or paint pans directly on the surface.
- Tape is an easy way to remove loose fuzz from the application roller.
- The ARDEX PANDOMO Floor/FloorPlus installation must be completed in a continuous fashion, including application of the protective wear layer. If any part of the process is interrupted by other trades, it is likely to cause aesthetic variance and potentially irreparable damage.
- Do not drip or spill any liquids onto the ARDEX PANDOMO surface throughout the entire installation process.

### Color

The natural color of ARDEX PANDOMO ES is clear amber. However, the product is not "water clear". This product may yellow in the presence of UV light. The application of ARDEX PANDOMO ES will enhance the color of the ARDEX PANDOMO surface. However, please note that the product color may vary from batch to batch. For this reason, use only product from the same batch for an entire project.

### Protecting the Finished Installation

Whenever possible, ARDEX PANDOMO installations should be scheduled as the final step in the construction process. If this is not possible, please note the installations sealed with ARDEX PANDOMO ES/PS Protective Wear Layer System should not be open to full traffic for seven days after the installation is completed. To protect the installation from damage due to trade or construction traffic, cover it with Surface Shields Builder Board™. Using other, non-breathable covers may cause surface discoloration.

## Maintenance

Once sealed, any finished floor surface requires routine cleaning and maintenance. For recommended maintenance procedures, please refer to the ARDEX PANDOMO® Maintenance Guide. Cleaning an ARDEX PANDOMO floor is very easy but must be performed in strict accordance with the printed cleaning guidelines. It is strongly recommended that a maintenance contract be reviewed and agreed upon with the installer to best preserve the value of the floor.

## Notes

This product is intended for interior use over dry substrates only. On grade applications require a vapor retarder below the slab, or a moisture remediation system must have been installed on the slab prior to installing the ARDEX PANDOMO wear surface. Do not use in areas of constant water exposure, or in areas exposed to permanent or intermittent substrate moisture, as this may jeopardize the performance of the ARDEX PANDOMO installation. The maximum recommended moisture vapor emission level is 75% RH (ASTM F2170).

Always install an adequate number of properly located test areas, including the processing and ARDEX PANDOMO ES/PS System. A sample mock-up of the finished floor must be made on site and approved by the owner's representative, including the suitability for intended use and aesthetics, and should be evaluated and approved under the planned lighting conditions for the finished floor. Acceptance of the floor must be made immediately after completion of the floor and it remains the responsibility of the owner's representative to protect the finished surface with a breathable covering until the space is opened for final use.

Improper mixing or overly thick application may result in product failure. Do not coat greater than 7 mils (178 microns) wet.

Excessive service conditions, such as steel- or hard plastic-wheeled traffic, or dragging metal equipment or loaded pallets with protruding nails over the floor, will cause scratching gouging and indentations. The ARDEX PANDOMO ES/PS System is not a sealer for heavy-duty manufacturing or industrial floors, or for chemical environments requiring customized industrial toppings. As with any floor covering (wood, soft natural stone, marble, etc.), allowances must be made for scratches or abrasion that occurs due to moving or sliding furniture or fixtures over the surface.

Low substrate temperatures require longer drying times for ARDEX products. Color or gloss may be affected by humidity, low temperatures, chemical exposure or sodium vapor lighting.

Do not seal the container once the components are mixed.

Turn off under-floor heating and allow the surface to cool before applying.

Never mix with additives. Acclimate the space and materials in accordance with the guidelines outlined above.

## Precautions

Skin and eye irritant. Vapors may cause respiratory irritation. Avoid contact with eyes, skin and clothing. May cause allergic reactions or sensitization. Use only with adequate ventilation, and avoid breathing vapors or dust. Wear appropriate protective clothing, and wash thoroughly after handling. KEEP OUT OF REACH OF CHILDREN. Carefully read and follow all cautions and warnings on product label. For full safety information, refer to the Material Safety Data Sheet ([www.ardexamericas.com](http://www.ardexamericas.com)).

## Chemical Resistance

Rating Key:

**A - not recommended**

**B - 2 hour term splash/spill**

**C - 8 hour term splash / spill**

REAGENT	RATING
Acetic Acid (5%)	B
Xylene	B
MEK	A
Gasoline	B
10% sodium hydroxide	C
10% sulfuric acid	B
10% hydrochloric acid	B
20% nitric acid	A

## Technical Data According to ARDEX

### Quality Standards

All data based on a full unit mix at 70°F (21°C). Physical properties are typical values and not specifications.

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<b>Coverage:</b>	250 to 300 square feet (23 to 28 m <sup>2</sup> ) per unit. Coverage may vary based on surface texture.
<b>Recommended Film</b>	5 to 7 mils wet, which yields 2 to 3.5 mils dry (127 to 178 microns wet, which yields 50 to 90 microns dry)
<b>Pot Life:</b>	2 hours
<b>Drying Time (min. at 70°F/21°C):</b>	To touch: 2 to 4 hours To recoat: 4 to 6 hours
<b>VOC Content:</b>	< 50 g/L
<b>Solids Content:</b>	43% (+/- 2%) by weight
<b>Finish:</b>	30 to 50 at 60°F (15°C)
<b>Abrasion Resistance:</b>	Taber Abrasor CS-17 Calibrase wheel with 1000 gram total load and 500 cycles = 45 mg loss
<b>Adhesion:</b>	> 425 psi (concrete failure, no delamination)
<b>Packaging:</b>	1 gallon unit in two components (Part A: 0.80 gal; Part B: 0.20 gal)
<b>Storage:</b>	Store in a cool dry area. Do not leave container exposed to sun. Keep from heat. Protect from freezing. Keep container closed when not in use.
<b>Shelf Life:</b>	1 year unopened
<b>Warranty:</b>	ARDEX Engineered Cements Standard Limited Warranty applies.

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