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# ARDEX V 1200™

## Self-Leveling Underlayment

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Levels and smooths a variety of interior substrates

Choose Reactivable™

Installs up to 2" (50.8 mm) in most applications

**systemONE**

Pourable or pumpable



Walkable in 2 to 3 hours

Install moisture-insensitive tile and stone after 6 hours, most other floor coverings after 24 hours



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# ARDEX V 1200™

## Self-Leveling Underlayment

### Suitable Substrates

- Concrete (structurally sound)
- Absorbent terrazzo on concrete
- Properly installed ARDEX moisture control systems on concrete:
  - ARDEX MC™ RAPID
  - ARDEX VR 98
- Other approved, non-porous materials on concrete:
  - Non-porous (non-absorbent) cementitious terrazzo
  - Ceramic, quarry or porcelain tiles
  - Epoxy coatings
  - Epoxy terrazzo
  - Non-water-soluble adhesive residue
  - Concrete treated with certain curing compounds (test areas only; for full instructions, see [ardexamericas.com/services/properprep](http://ardexamericas.com/services/properprep).

†Must be sound, solid and well-bonded to underlying, structurally sound substrates.

### Suitable Applications

- All grade levels
- Dry areas only
- Interior applications only

### Job Conditions

During installation and cure, substrate and ambient temperatures must be a minimum of 50°F / 10°C.

### Step 1: Moisture Evaluation and Testing

This product is intended for interior, dry spaces. Hydrostatic pressure, plumbing leaks, flood factors and other sources of water infiltration must be identified and corrected prior to installation. This product is not a vapor barrier and will allow free passage of moisture vapor.

Test concrete in accordance with ASTM F2170. For high-moisture floor coverings and adhesives, this product can be installed over concrete with relative humidity (RH) levels up to 99% provided: Each on-ground slab is built on a vapor retarder, which remains effective and intact, in conformance with ASTM E1745

All other cases: Moisture control is required if the RH exceeds the most stringent of the following: 1) the limitations imposed by the flooring manufacturer; 2) the limitations imposed by the adhesive manufacturer.

If moisture control is required, see “Moisture Control System Selection” section below. If moisture control is not required, see the “Priming Method Selection” section below.

### Moisture Control System Selection (*priming course if moisture control is required*)

For ARDEX MC RAPID: RH levels up to 100% on all grade levels.

For ARDEX VR 98:

1. RH levels are 98% or below (85% for radiant-heated slabs).
2. The slab is either above-grade, or, the slab is built on a vapor retarder, which remains effective and intact, in conformance with ASTM E1745.

If moisture control is not required, choose the appropriate primer in accordance with the next section.

### Priming Method Selection (*if moisture control is not required*)

Primers

- ARDEX P 51™ Primer
- ARDEX P 82™ Ultra Prime
- ARDEX P 4™ Pre-Mixed, Rapid-Drying, Multipurpose Primer

| Substrate (Interior, dry substrates only)  | Porosity                              | Priming Course  |
|--|---------------------------------------|---|
| Concrete and cementitious terrazzo on concrete   | Standard absorbent (porous)           | ARDEX P 51 mixed 1:1 or ARDEX P 4                           |
|  | Non-absorbent (non-porous; burnished) | ARDEX P 82 or ARDEX P 4                                     |
|  | Extremely absorbent                   | ARDEX P 51 “double prime” or ARDEX P 4                      |
| Other approved, non-porous materials on concrete (see the “Suitable Substrates” section above) | N/A                                   | ARDEX P 82 (all) or ARDEX P 4 (all except adhesive residue) |

## Step 2: Substrate Preparation (Proper Prep™)

For full details on Proper Prep, reference the following articles at [ardexamericas.com/services/properprep](http://ardexamericas.com/services/properprep):

- Article 1.1: Preparing Concrete for ARDEX or HENRY Underlayments
- Article 1: Preparing Concrete for Bonded ARDEX or HENRY Applications
- Proper Prep Brochure

If necessary, mechanically clean the substrate by shot blasting or similar means. Do not use acid etching, adhesive removers, solvents or sweeping compounds, as these are bond breakers. Sanding is not an effective method to remove contaminants from concrete.

Substrate must be dry and free of excess moisture and alkali. All substrates must be sound, solid and thoroughly clean of all bond-breaking contaminants, including but not limited to: overwatered or otherwise loose or weak material; unapproved curing compounds and sealers; dirt, dust, wax, grease, paints and oils; unsuitable adhesive residues.

Handle and dispose of asbestos and other hazardous materials in accordance with prevailing regulations, which supersede the recommendations in this document.

### Minimum Preparation

Depending on the selected priming course:

| Priming Course            | Minimum Preparation   |
|---------------------------|---|
| ARDEX P 4                 | Substrate must be clean   |
| ARDEX P 51<br>ARDEX VR 98 | Substrate must be clean and absorbent (ASTM F3191)  |
| ARDEX P 82                | Substrate must be clean and not absorbent.<br><br>Non-water-soluble adhesive residue must be wet scraped to thin, well-bonded residue ( <a href="http://rfci.com">rfci.com</a> ).   |
| ARDEX MC RAPID            | Mechanically remove all adhesive residue, sealers, curing compounds, tiles, mortars and epoxy coatings down to clean, sound, solid concrete / terrazzo<br><br>Concrete and terrazzo substrates must be clean and prepared to a minimum CSP 3 / maximum CSP 5 ( <a href="http://icri.org">icri.org</a> ) |

### Vacuuming

Following preparation, thoroughly vacuum to remove all excess dirt and debris.

## Step 3: Treating Joints and Cracks

Under no circumstances should any product herein be installed over moving joints or moving cracks. Honor all moving joints, including expansion joints and isolation joints, as well as all moving cracks, up through the product and flooring.

While dormant control joints and dormant cracks may be pre-filled, this filling is not intended to act as a repair method that will eliminate the possibility of telegraphing. Non-structural materials are unable to restrain movement within a concrete slab. Cracks will telegraph in any area that exhibits movement, such as an active crack, an expansion or isolation joint, or an area where dissimilar substrates meet. We know of no method to prevent this telegraphing.

If an ARDEX moisture control system will be installed (see "Moisture Testing" section above): All dormant joints and dormant cracks greater than a hairline (1/32" / 0.8 mm) that will not be honored must be pre-filled with ARDEX ARDIFIX™ Low Viscosity Rigid Polyurethane Crack and Joint Repair and sand broadcasted to refusal in strict accordance with the technical data sheet.

If an ARDEX moisture control system will not be installed: Dormant cracks and dormant joints can be patched with ARDEX FEATHER FINISH® Self-Drying, Cement-Based Finish Underlayment or similar trowel-applied material in accordance with the technical data sheet.

## Step 4: Install Appropriate Priming Course

### Moisture Control System Installation (*priming course if moisture control is required*)

If moisture control is required, install the selected ARDEX moisture control system in accordance with the appropriate technical data sheet ([www.ardexamericas.com/products](http://www.ardexamericas.com/products)). To select the appropriate moisture control system, see the "Moisture Control System Selection" section above.

### Priming (if moisture control is not required)

See the “Priming Method Selection” section above to select the appropriate primer based on the substrate.

Products may need longer drying times with low surface temperatures and/or high ambient humidity. Do not proceed with subsequent steps before product has dried thoroughly.

### Absorbent Concrete: ARDEX P 51 Mixed 1:1

Dilute primer with water at a rate of 1:1 by volume. Apply evenly with a clean, soft-bristled push broom. Do not use paint rollers, mops or spray equipment. Do not leave bare spots. Brush off puddles and excess primer.

It is critical to ensure that the primer is dry prior to proceeding with the next installation step. To determine if the primer is dry after a minimum of 30 minutes (max. 24 hours), pour water onto the surface of the primer in several areas and rub it with your finger. If the water remains clear, the primer is dry. If the water turns cloudy or milky, additional drying time is needed.

### Extremely Absorbent Concrete: ARDEX P 51 “Double Prime”

Make an initial application of primer diluted with 3 parts water by volume. Let the initial application dry thoroughly (1 - 3 hours), and then install a second application of primer mixed 1:1 with water as detailed directly above.

### Non-Porous Surfaces: ARDEX P 82

Follow the mixing instructions on the container, and apply with a short-nap or sponge paint roller, leaving a thin coat of primer. Do not leave any bare spots. Back roll with a dry roller to remove excess primer. ARDEX P 82 should be applied within 1 hour of mixing. Allow to dry to a thin, slightly tacky film (min. 3 hours, max. 24 hours).

### Various, Approved Substrates: ARDEX P 4

Apply a thin, even layer to the substrate using a short-nap roller, sponge paint roller or paintbrush. Allow the primer to dry to a thin, opaque, white film (min. 30 minutes; 70°F / 21°C). Once dry, there is no time limit before the subsequent installation may proceed. However, please note that the subsequent installation should proceed as soon as possible to avoid surface contamination or damage to the primed surface.

### Step 5: Mixing and Application

#### Recommended Tools

ARDEX T-1 Mixing Paddle • ARDEX T-10 Mixing Drum • 1/2” (12 mm) heavy-duty drill (min. 650 rpm) • appropriate measuring bucket • ARDEX T-4 Spreader • ARDEX T-5 Smoother • ARDEX T-6 Spiked Roller • cleated athletic shoes with non-metallic spikes

#### Safety and OSHA Compliance

Handle each bag with care, emptying it in a manner that avoids creating a plume of dust. While mixing, use a standard “gutter hook” vacuum attachment in combination with a heavy-duty, bucket-style vacuum (Shop-Vac® or similar) and HEPA dust extraction vacuum system.

#### Application Data

|                     |  |
|---------------------|--|
| <b>Water ratio:</b> | 5 quarts (4.75 liters) of clean water per unit |
| <b>Flow time</b>    | 10 minutes (70°F / 21°C)                       |

#### Thickness of Application

| Application   | Max. Thickness |
|---|----------------|
| Over ARDEX VR 98                                    | 1/4” (6 mm)    |
| Over substrates primed with ARDEX P 82 or ARDEX P 4 | 1/2” (12 mm)   |
| All other applications                              | 2” (50.8 mm)   |

## Manual

Mix two bags at a time. Pour the water in the mixing container first, and then add powder while mixing with the mixing paddle and a 1/2" (12 mm) heavy-duty drill (min. 650 rpm). Mix thoroughly for approximately 2 to 3 minutes to obtain a lump-free mix. Do not overwater! Additional water will weaken the compound and lower its strength. Yellowish foam while mixing, or settling of the sand aggregate while placing, indicates overwatering.

Pour the mix onto the floor. Spread with spreader. Immediately smooth the material with the smoother, or spike roll the material with the spiked roller. Work in a continuous manner during the entire self-leveling installation. Wear cleated athletic shoes with non-metallic spikes to avoid leaving marks in the liquid.

Install at a minimum thickness of 1/8" (3 mm) over the highest point in the floor, which typically results in an average thickness of 1/4" (6 mm) or more over the entire floor.

To match existing elevations, product can be tapered to as thin an application as the sand in the material will allow. If a true featheredge is needed, ARDEX recommends using ARDEX FEATHER FINISH or other unsanded ARDEX patching material for transitions.

## Pumping

Product can be pumped using ARDIFLO™ Automatic Mixing Pumps. ARDIFLO Pumps provide high productivity and smooth, consistent installations. Pumps may be rented or purchased from an authorized ARDEX Distributor. Please contact the ARDEX Technical Service Department with regard to pumping.

## Wear Surface

This product is not to be used as a permanent wear surface, even if coated or sealed. Install a suitable floor covering material, such as carpet, vinyl flooring, ceramic tile, etc. For concrete floors in warehouses, storage areas, hallways or other areas where a wear surface is required, use ARDEX K 520 or other ARDEX self-leveling topping.

## Step 6: Drying Time and Installation of Flooring

All dry times are calculated at 70°F (21°C). Drying time is a function of jobsite temperature and humidity conditions. Low substrate temperatures and/or high ambient humidity will extend the drying time. Adequate ventilation and heat will aid drying. Forced drying can dry the surface of the product prematurely and is not recommended.

|  | Thicknesses of 3/8" (9 mm) or less | Thicknesses greater than 3/8" (9 mm) |
|--|------------------------------------|--------------------------------------|
| <b>Moisture-insensitive tile (ceramic, quarry, porcelain):</b>         | 6 hours                            |                                      |
| <b>Carpet, vinyl sheet, vinyl tile, vinyl plank, rubber, linoleum:</b> | 24 hours                           | Mat test††                           |
| <b>Walkable:</b>   | 2 - 3 hours                        |                                      |
| <b>All other floor coverings:</b>                                      | Mat test††                         |                                      |

††Mat testing: Allow the installation to dry a minimum of 24 hours prior to mat testing in accordance with ASTM D4263. To do this, place a piece of heavy plastic or a smooth rubber mat down over a 2' X 2' area. After 24 hours, lift the barrier material and inspect for surface darkening. A darkened area indicates excessive moisture is still present, and further drying time is required. Repeat the above test at regular intervals until no darkening is observed.

## Notes

Intended for use by professional contractors who are trained in the application of this product and/or similar products. Not sold by ARDEX through home improvement centers. For information on ARDEX Academy trainings, visit [ardexamericas.com](http://ardexamericas.com).

In accordance with industry standards, and to determine the suitability of the products for the intended use, always install an adequate number of properly located test areas including the finish flooring. As floor coverings vary, always contact and rely upon the floor covering manufacturer for specific directives, such as maximum allowable moisture content, adhesive selection and intended end use of the product. If the installation is not proceeding as expected, contact the ARDEX Technical Service Department before proceeding further.

Never mix with cement or additives outside of our written recommendations. Observe the basic rules of concrete work, including the minimum surface and air temperatures detailed above. Install quickly if the substrate is warm, and follow the warm weather installation guidelines available on our website.

Dispose of packaging and residue in accordance with prevailing regulations. Do not flush material down drains. Do not reuse packaging.

## Precautions

Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Safety Data Sheet (SDS) available at [www.ardexamericas.com](http://www.ardexamericas.com).

## Technical Data According to ARDEX Quality Standards

All data based on a partial, in-lab mix. Mixing and testing completed at 70°F / 21°C and in accordance with ASTM C1708, as applicable. Physical properties are typical values and not specifications.

|  |   |
|--|---|
| <b>Coverage:</b>   | Per bag at 1/4" (6 mm): 25 sq. ft. (2.3 sq. m)<br>Coverage varies with texture of substrate surface.  |
| <b>Max. Thickness:</b>                                       | Varies up to 2" (50.8 mm); see the "Thickness of Application" section above.  |
| <b>Compressive Strength (ASTM C109/mod – Air cure only):</b> | 4,500 psi (315 kg/cm <sup>2</sup> ) at 28 days  |
| <b>Flexural Strength (ASTM C348):</b>                        | 1,000 psi (70 kg/cm <sup>2</sup> ) at 28 days   |
| <b>Drying Time</b>   | See the "Drying Time and Installation of Flooring" section above.   |
| <b>VOC:</b>  | 0   |
| <b>Packaging:</b>  | 50 lbs (22.7 kg) bag  |
| <b>Storage:</b>  | Store in a cool, dry area. Do not leave units exposed to sun.   |
| <b>Shelf Life:</b>   | 1 year, if unopened and properly stored   |
| <b>Warranty:</b>   | ARDEX L.P. Standard Limited Warranty applies. Also eligible for the ARDEX/HENRY SystemOne™ Warranty when used in conjunction with select HENRY® Flooring Adhesives. See <a href="http://ardexamericas.com/services/warranties">ardexamericas.com/services/warranties</a> for full warranty details. |

Made in the USA.

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[ardexamericas.com/services/technical-services/techupdates](http://ardexamericas.com/services/technical-services/techupdates).

## ARDEX V 1200™ Sound Testing

Completed in accordance with ASTM E90, ASTM E492 and ASTM E2179. Concrete slabs are 6". Ceiling assemblies are wire hung ceiling grid, R-13 Insulation, 1 Layer Type X.

| Assembly  | Result          |
|---|-----------------|
| 1/4" underlayment over concrete                               | Delta IIC of 8  |
| 1/2" underlayment over concrete                               | Delta IIC of 9  |
| 1/4" underlayment over concrete with ceiling                  | IIC 50          |
| 1/2" underlayment over concrete with ceiling                  | IIC 52          |
| VCT and 1/4" underlayment over concrete with ceiling          | IIC 53          |
| Carpet tiles and 1/4" underlayment over concrete with ceiling | IIC 71          |
| Carpet tiles and 1/4" underlayment over concrete              | Delta IIC of 28 |

Visit [www.youtube.com/ARDEX101](http://www.youtube.com/ARDEX101) to watch ARDEX product demonstration videos. For recommended installation tools, visit DTA USA at [www.dtausagroup.com](http://www.dtausagroup.com). For easy-to-use ARDEX Product Calculators and Product Information On the Go, download the ARDEX App.



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