



ARDEX P 51™

Primer

Solvent free, concentrated primer - dilutes with water

Seals the substrate

For bonding ARDEX underlayments and toppings to appropriate substrates

For interior use only

ARDEX P 51™

Primer

Suitable Substrate and Suitable Applications

- For priming appropriate substrates prior to application of ARDEX Underlayments and Toppings (dry, interior areas only; all grade levels). Refer to the specific requirements for the ARDEX underlayment or topping being installed.
- Do not use over concrete with excessive moisture. If concrete moisture control is needed: Contact the ARDEX Technical Service Department or visit the ARDEX Americas website for moisture control options: (ardexamericas.com/products/moisture-control).
- Primarily used over absorbent concrete; used over wood, gypsum, and non-water-soluble adhesive residue in specialized applications and with select underlayments only.
- For most non-porous substrates, including burnished concrete, non-absorbent terrazzo, ceramic, quarry and porcelain tile, epoxy coatings and non-water-soluble adhesive residue in most applications, use ARDEX P 82, ARDEX P 4 or ARDEX EP 2000; see appropriate technical data sheet for instructions.

Jobsite Conditions

During installation and cure, substrate and ambient temperatures must be a minimum of 50° F / 10° C. If installing over an in-floor heating system, turn the heating system off 48 hours before, during and at least 48 hours after completion of the installation.

Step 1: Substrate Preparation (Proper Prep™)

For full details on Proper Prep, reference the following articles at ardexamericas.com/services/properprep:

- [Article 1: Preparing Concrete for Bonded ARDEX or HENRY Applications](#)
- [Article 1.1: Preparing Concrete for ARDEX Underlayments](#)
- [Article 2: Preparing Wood for Bonded ARDEX Applications](#)
- [Proper Prep Brochure](#)

Refer to the specific requirements for the ARDEX underlayment or topping being installed.

Mechanically clean substrate, if necessary, 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 alkali free. 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; dirt, dust, wax, grease, paints and oils; and all curing compounds and sealers.

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

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

Step 2: Treating Joints and Cracks

Refer to the specific requirements for the ARDEX underlayment or topping being installed.

Step 3: Application

Recommended Tools

Clean, soft-bristled push broom; paint stirrer

Mixing and Application

Shake or Stir with a wooden paint stirrer or similar to ensure all components that have settled are in full suspension. Do not mechanically mix or mix with other additives.

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.

Approximate Coverage: 400 - 600 sq. ft. / gallon (9.8 - 14.7 m² / L) Per Coat; Dependent on surface profile, density and porosity.

Step 4: Tool Cleanup

Clean all tools with water before product dries.

Application Selection Table

Substrate	Coat	Dilute with Clean Water (ratio by volume)	Minimum Set Time*
Standard absorbent (porous) Concrete (structurally sound); Absorbent terrazzo on concrete	Single coat	1:1	30 minutes - 24 hours
Gypsum; Extremely absorbent concrete**	First coat	3:1 (3 parts clean water:1 part Primer)	1 - 3 hours
	Second coat	1:1	30 minutes - 24 hours
Wood and non-water-soluble adhesive residue (select ARDEX underlayments only; see appropriate technical data sheet).	Single coat	Undiluted	3 - 24 hours

*Allow primer to dry thoroughly to a clear, thin film prior to applying subsequent coats or ARDEX underlayments / toppings. To determine if primer is dry after the minimum dry time specified above, 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. Do not install the ARDEX underlayment before the primer has dried thoroughly.

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.

**The “double-prime” method helps prevent the formation of bubbles and pinholes in the ARDEX underlayment or topping.

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. Never mix with cement or additives outside of our written recommendations. 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

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. If the installation is not proceeding as expected: Contact the ARDEX Technical Service Department before proceeding further. 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.

Technical Data According to Manufacturer Quality Standards

Physical properties are typical values and not specifications. and Testing completed at 70°F / 21°C.

VOC:	0
Packaging:	4 gal. (15.14 L) Unit 1 gal. (3.78 L) Unit
Storage:	Store in a cool, dry area. Do not leave units exposed to sun. Keep from freezing. Keep away from heat.
Shelf Life:	12 months, if unopened and properly stored
Warranty:	ARDEX L.P. Standard Limited Warranty applies. For full warranty details: www.ardexamericas.com/services/warranties .

Made in the USA

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



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