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# ARDEX R 54™

## Performance Sealer for Stain & Wear Protection

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Available in high gloss and matte clear finishes

For interior use on ARDEX toppings

Performance sealer; gives ARDEX toppings higher gloss and increased abrasion and stain resistance while lowering maintenance costs

Resists water penetration

2-part waterborne, aliphatic, polyurethane sealer

Low odor

Can be cleaned up with water

# ARDEX R 54™

## Performance Sealer for Stain & Wear Protection

### Suitable Applications

- For sealing ARDEX toppings.
- For use in light industrial and commercial projects.
- Suitable to receive rubber-wheeled forklift traffic.

### Job Conditions

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

High concrete relative humidity (RH) levels can cause a cloudy appearance. For interior applications where aesthetic qualities are critical, concrete RH exceeding 75% must be mitigated.

Prior to installation of the material to be sealed: Test concrete in accordance with ASTM F2170. If moisture control is required, install the ARDEX moisture control system in accordance with the appropriate technical data sheet

### Step 1: Substrate Preparation (Proper Prep™)

Prior to installation, clean the ARDEX topping as needed using a clean, dry dust mop or microfiber mop. Deep vacuum to remove all dust and debris.

### Step 2: Priming

Following the instructions in the technical data sheet, prime the ARDEX topping with ARDEX R 54 AP, and allow this course to cure a minimum of 3 hours (70°F / 21°C) prior to proceeding with the next installation step.

### Step 3: Mixing and Application

#### Recommended Tools

Short-nap roller 3/8" that has been delinted; low speed drill; epoxy mixing paddle; paint tray

### Mixing

For blending, the hardening agent (Part B) is added to the resin (Part A). Pour all of the hardener into the resin portion, and then mix thoroughly for a minimum of 3 minutes using a low speed drill and an epoxy mixing paddle. Once mixed, pour some of the material back into the hardener container, mix for 10 seconds, and then pour all of the contents back into the resin container. This step ensures that no hardener residue remains unreacted. Mix for an additional 30 seconds before applying.

### Approximate Coverage\*

First coat:	230 - 400 sq. ft. / gallon (5.6 - 9.8 sq. m / L)
Second coat:	400 - 450 sq. ft. / gallon (9.8 - 11 sq. m / L)

\* Dependent on surface profile, density and porosity.

### Instructions

Load the paint tray, and then use the 3/8" short-nap paint roller to apply a minimum of 2 coats for high traffic areas or 1 coat for regular traffic areas.

Apply material thinly and evenly (3 - 4 wet mils), and back roll in a cross application, completely covering the surface and avoiding streaks and applicator marks. Apply in small sections at a time. DO NOT OVER APPLY.

Apply subsequent coats when dry to the touch (see table below) and within 24 hours.

### Drying Time (75° F / 24°C)

Dry to the touch (High Gloss):	4 - 12 hours
Dry to the touch (Matte):	3 - 5 hours
Light foot traffic:	24 hours
Full cure:	5 days

### Step 4: Tool Cleanup

Use soap and water to clean tools and equipment. Once dried, the material can be removed from tools with a solvent, such as xylene.

## Technical Data According to Manufacturer Quality Standards

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

<b>Coverage:</b>	See section entitled "Approximate Coverage" above.
<b>Drying Time:</b>	See section entitled "Drying Time" above.
<b>DCOF (ASTM A326.3):</b>	High Gloss: 0.27 Matte: 0.43
<b>VOC:</b>	<1 g/L ASTM D 6886 (calculated)
<b>Packaging:</b>	One unit contains (1) container each: 3 qt. / 2.84 L (Part A) and 1 qt. / 0.95 L (Part B)
<b>Storage:</b>	Store at temperatures between 40 and 90°F (5 - 32°C). Do not freeze
<b>Shelf Life:</b>	12 months, if unopened and properly stored
<b>Warranty:</b>	ARDEX L.P. Standard Limited Warranty applies. For full warranty details: <a href="http://www.ardexamericas.com/services/warranties">www.ardexamericas.com/services/warranties</a> .

## Step 5: Care and Maintenance of ARDEX Surfaces

### Note

Maintaining ARDEX Finished Surfaces and adherence to a strict maintenance schedule will help maximize its performance, appearance and slip resistance and will reduce the absorption of spilled liquids. Sealing the floor permits the floor to retain its aesthetic quality.

Prompt removal of liquids is critical in minimizing slip hazards as well as staining.

### Daily Cleaning and Maintenance Procedure

Once fully cured, routinely sweep, dry mop and wash with neutral pH cleaners and water. Spot clean and dry areas of concentrated traffic as needed.

Do not use abrasive brushes or pads as part of a daily maintenance program. The use of mechanical cleaning devices, such as auto scrubbers and swing buffers with non-abrasive 3M Sky Blue maintenance pads, may be employed as needed when a sacrificial wax layer is applied. All mechanical cleaning devices must have the ability to remove all residual ponding water and cleaning agents.

Do not use cleaners that are acidic or contain citrus (d limonene) or butyl compounds. The application of highly acidic cleaners may etch or stain the surface and reduce the floor's ability to resist water penetration. Prior to commencement of any maintenance, on-site test areas of the selected cleaner should be done to ensure compatibility.

Reapplication: For applications where a sacrificial wax layer has not been applied / maintained, it will be necessary to evaluate the sealer periodically to assess its ability to repel staining agents. Reapply as necessary and in accordance with this technical data sheet for optimum performance.

## **Monthly or Quarterly Maintenance and Cleaning**

As part of the maintenance of ARDEX Finished Surfaces, additional steps are required to ensure the aesthetic and performance qualities. Burnishing or micro-polishing with a high-speed burnisher or swing buffer and non-abrasive pad is recommended, as long as the sacrificial wax layer is in place. The use of a diamond impregnated pad (DIP) is not recommended.

High traffic areas may require sealer / coating reapplication in accordance with the technical data sheet. See the "Reapplication of Sealer / Coating" section below.

## **Semi-Annual or Annual Maintenance and Cleaning**

Perform the procedures outlined in the above "Daily Maintenance and Cleaning" section, and then, where desired, burnish or micro-polish with a high-speed burnisher or swing buffer and 3M Sky Blue pad. For additional protection, supplementary coats may be applied as detailed above. See the "Reapplication of Sealer / Coating" section below.

## **Reapplication of Sealer / Coating**

Periodic reapplication of sealer / coating is required to properly maintain ARDEX Finished Surfaces. Ensure that the existing surface is clean and sacrificial wax layer removed, to include the complete, mechanical removal of all bond-inhibiting contaminants.

## **Important Maintenance Notes**

Pads for all mechanical devices should be selected based on the manufacturer's recommendation for each individual equipment piece.

Due to varying traffic frequency, timetables for the above procedures must be adjusted to fit the needs of the space.

Heavy traffic areas may require more frequent application of the above recommendations.

## **General Guidelines**

Please note that the installation of an ARDEX finished surface should be the last step in the construction process. Other trades should not be working in or around an ARDEX installation without proper protection of the ARDEX finished surface. Once the floor has fully cured, the newly installed ARDEX finished surface should be protected from spills, dirt and debris with a temporary, breathable floor protection, such as roll-out fiber board.

Additionally, if the floor will receive excessive traffic during move-in, protection from rolling carts, dollies, racks, gondolas, register wraps, etc. must be planned and implemented. Protection may include temporary "roving plywood" to prevent gouging and indentation of the completed floor installation. Where "roving plywood" is used, it should be removed daily.

## **Tape**

Do not use tape (duct, masking, painters, blue, etc.) in direct contact with ARDEX floors, as it can damage the sealed surface upon removal. Spot taping overlapped breathable floor protection, such as roll-out fiber board, to itself is suitable for this temporary application.

## Chair Pads

To avoid marring of the ARDEX finished surface, use felt pads on all chairs and furniture that will come into contact with the floor.

## Walk-Off Mats

As with any floor covering, the use of a comprehensive walk-off mat system is highly recommended. A walk-off mat system will control most of the dirt and debris that would otherwise be tracked inside. A suitable walk-off mat system will have sufficient texture to remove dirt from foot and rubber wheeled traffic.

## Moving Furniture and Equipment

As with any finished floor surface, dragging or sliding equipment or furniture may damage the surface. Where furniture or equipment cannot be lifted and carried or where felt furniture sliders or pads will not be used, a temporary, breathable floor protection, such as roll-out fiber board, must be placed over the floor. Rubber-wheeled carts or dollies may also be used.

## Miscellaneous

Use a plate or other moisture-catching foundation beneath potted plants. Use a breathable pad underneath the plate to prevent trapped moisture from damaging the finish.

After the application has fully cured, use smooth-sided plastic mats below office chairs or other recurring, wheeled traffic. The constant abrasion of the wheels will scrape and damage the surface over time.

## 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: [www.ardexamericas.com](http://www.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.

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).

Made in the USA

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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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