



ARDEX CD™

Concrete Dressing

Cement-based concrete resurfacing compound modified with select high-performance polymers for exceptional bond strength

Resurfaces worn and spalled concrete to provide a "new concrete" finish

Produces a new wear layer and fills small surface defects such as spalls and gouges

Mixes with water to form a creamy, smooth, slurry consistency

Applies by trowel, squeegee or hopper gun

Broom texture before it sets for a reduced-slip surface

Easy to apply; hardens quickly

Installs from 1/16" to 1/8" (1.5 to 3 mm); up to 1/2" (12 mm) in small, well-defined areas

Freeze-thaw resistant

Produces a finished surface suitable for foot and rubber-tire traffic

Suitable for commercial and residential applications, including sidewalks, patios, plazas, courtyards, walkways, driveways, parking garages and pool decks, as well as most vertical concrete surfaces

Interior or exterior

For larger or deeper repairs, use ARDEX CP™ Concrete Patch

ARDEX CD™

Concrete Dressing

Suitable Substrates

Concrete (structurally sound and absorbent)

Suitable Applications

- Applications to receive normal foot traffic and/or rubber-wheeled traffic
- Interior or Exterior
- All grade levels
- Horizontal and vertical concrete surfaces
- Not for pools, fountains or other submerged spaces
- Not for heavy manufacturing or areas with heavy truck traffic

Jobsite Conditions

During installation and cure, substrate and ambient temperatures must be a minimum of 50°F / 10°C. Direct sunlight or wind may cause unwanted surface drying. Avoid installation if rain is expected within 6 - 8 hours or if freezing temperatures could occur within 24 hours. As with any cementitious material, the above conditions can alter appearance and/or performance.™

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
- Proper Prep Brochure

The concrete substrate must be absorbent to receive ARDEX CD. Any additional preparation required to achieve this must likewise be mechanical.

If necessary, prepare the substrate using mechanical methods such as shot blasting, grinding, scarifying or similar. Do not use acid etching, adhesive removers, solvents or sweeping compounds, as these are bond breakers. Sanding is not an effective method to remove curing and sealing compounds or other contaminants from concrete.

High-pressure power washing (5,000 psi / 34.5 MPa) may also be used to remove dust, dirt and debris. Allow the concrete to dry thoroughly before proceeding.

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: frozen, overwatered or otherwise loose or weak material; dirt, dust, wax, grease, paints, form release and oils; asphalt; all curing compounds and sealers; all existing patching and leveling materials; all adhesive residues.

Clean debris out of expansion joints, and tape or mask the joints off to prevent ARDEX CD from filling them.

Use a lawn edger to clean around walks, driveways, planter boxes and landscaped areas.

Minimum Preparation

In all cases, the substrate must be clean, sound and absorbent. Mechanically clean the concrete down to sound, solid concrete wherever contaminants, or overwatered, frozen or otherwise weak material, are present.

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

All joints, including expansion joints and isolation joints, construction joints and control joints (saw cuts), as well as all moving cracks, must be honored up through the entire assembly, including the finishing course. Under no circumstances should this product or any other component of the assembly be installed over these. Joints and moving cracks must be honored using a flexible sealing compound specifically designed for use in moving joints, such as ARDEX ARDISEAL™ RAPID PLUS or similar.

All 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. Allow ARDEX ARDIFIX to cure 45 minutes (70°F / 21°C) and remove all excess sand; refer to the technical data sheet for full details.

Filling dormant cracks as described above helps prevent them from showing through the dressing. However, should movement occur, cracks will reappear. ARDEX cannot be responsible for problems that arise from joints, existing cracks or new cracks that may develop after the system has been installed.

Step 3: Priming (as needed)

No priming is required over standard absorbent concrete.

Over highly absorbent concrete, priming reduces the potential for pinholes forming in ARDEX CD and increases the working time of the product. For priming recommendations, please contact the ARDEX Technical Service Department.

Step 4: Mixing and Application

Recommended Tools

Mixing Paddle; mixing buckets; appropriate measuring bucket; 1/2" (12 mm) heavy-duty drill (min. 650 rpm); margin trowel; steel trowel; squeegee; hopper gun (where required); fine or medium-bristle finishing broom; 3" paintbrush for edging.

Application Data

Water Ratio:	5 quarts (4.75 L) clean water per bag 2.75 parts powder: 1 part clean water by volume (small batches) 4 parts powder: 1 part clean water by volume (minor patching)
Approximate Pot Life:	30 minutes (70°F / 21°C)
Approximate Working Time:	10 - 15 minutes (70°F / 21°C)
Thickness of Application:	General application: 1/16" - 1/8" / 1.5 - 3 mm Maximum for minor patching: 1/2" / 12 mm (small, well-defined areas)

Please note that thicker areas will take longer to set and will reduce the overall coverage.

Mixing

Pour the water in the mixing container first, and then add the 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. In warm weather, use cold water to extend working time.

Small batches may be mixed by hand. Use a margin trowel, and mix vigorously for 2 to 3 minutes to obtain a lump-free mix.

Jobsite conditions and temperature may affect pot life. If the material begins to harden within published pot life, retemper with a drill and mixing paddle. Do not add more water.

Minor Patching (as needed)

For filling small holes, gouges or spalls up to 1" (25 mm) in diameter and 1/2" (12 mm) deep, mix as detailed above, and apply to the prepared surface with a flat steel trowel or putty knife.

Allow repair areas to set firmly (30 to 45 minutes at 70°F / 21°C) before applying the finish coat of the dressing. Cool ambient and surface temperatures will slow the setting time.

For larger or deeper repairs, use ARDEX CP™ Concrete Patch.

General Application

ARDEX CD is to be installed in as thin a layer as can be placed while getting full coverage.

Pour the mixed material onto the concrete and flat trowel, squeegee or broom it onto the surface, applying enough pressure to ensure good dressing-to-concrete contact. Maintain a “wet edge” during installation to help minimize the natural color variations that can occur between sections.

Immediately apply a light broom finish to achieve the desired texture, working in areas small enough to permit finishing without walking on the freshly installed dressing.

On vertical surfaces such as walls or stair faces, trowel, brush or spray the dressing directly onto the prepared area using a hopper gun. Smooth or brush the material to the desired finish.

Step 5: Drying Time

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.

No special curing procedures are required.

Walkable:	When hard (approximately 2 hours)
Waterborne sealer:	
Full traffic:	Consult sealer manufacturer

Color

ARDEX CD is formulated from Portland cement and other hydraulic cements, and is available in gray. Because concrete color and jobsite conditions vary widely, this product is not intended to match the color of the concrete being resurfaced or adjacent concrete. Jobsite conditions such as direct sunlight and wind, as well as surface exposure to moisture before the product completely sets, can lead to color variations.

Should this occur, it can often be corrected by pre-wetting the surface of the discolored dressing and misting it with one part vinegar diluted with three parts water. Allow the vinegar solution to stand on the surface for a minimum of 10 minutes without allowing it to dry, then rinse clean and allow to dry thoroughly. Should the condition persist, an opaque sealer may be used. Consult the ARDEX Technical Service Department for additional information.

As with any concrete surface, product should be sealed to prevent dusting and to help resist damage from standing water, salt or oil, as well as staining and marking. Seal with a waterborne, breathable sealer as soon as the dressing hardens sufficiently to work on without damaging the surface, and avoid full traffic and vehicular traffic until the sealer has dried thoroughly.

Cracking

Thinly applied, non-structural dressings are not capable of restraining movement in the structural slab, which could lead to reflective cracking. Telegraphing is common where there is slab deflection, vibration from truck traffic and/or subways, swaying or “racking” of high-rise buildings, existing cracks or joints in the slab and/or electrical boxes, vents or other metal inserts. Cracks may telegraph up into the surface in any area that exhibits movement.

Additionally, certain jobsite conditions can lead to hairline cracking. Hairline cracking, while aesthetically unpleasant, typically does not affect the overall performance of the dressing. The most common cause of hairline cracking is excessively rapid moisture evaporation from the product during cure due to low ambient humidity and/or rapid air movement in the space. Hairline cracking can also occur when there is even slight movement or deflection in the existing substrate.

If cracking occurs, we recommend sounding the affected areas to ensure that the product is well-bonded to the substrate.

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.

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, including the sealer / coating and any desired colorants. As finish materials vary, always contact and rely upon the sealer / coating manufacturer for specific directives, such as maximum allowable moisture content and intended end use of the product.

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

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.

Technical Data According to Manufacturer Quality Standards

Physical properties are typical values and not specifications. All data based on a partial, in-lab mix. Mixing and Testing completed at 70°F / 21°C.

Coverage:	Per bag at 1/16" (1.6 mm): 120 sq. ft. (11.1 m ²) Per bag at 1/8" (3.2 mm): 60 sq. ft. (5.5 m ²) Application methods and the texture of the concrete being coated will affect these rates.
Compressive Strength (ASTM C109/mod – Air cure only):	4,000 psi (27.6 MPa; 281 kg/cm ²) at 28 days
Colors:	Gray
Packaging:	40 lb. (18 kg) bag
Storage:	Store in a cool, dry area. Do not leave units exposed to sun. Protect unused material by removing air from container and sealing tightly.
Shelf Life:	12 months, if unopened and properly stored
Warranty:	ARDEX Standard Limited Warranty applies.

Made in the USA.

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www.ardexamericas.com.

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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