



ARDEX CP™

Concrete Patch

Trowel-applied, or screed-applied cement-based concrete patch and fill formulated with select high-performance polymers

Repairs, reslopes and reforms all concrete surfaces

Ready to seal in as little as 24 hours

Ideal for filling spalls, gouges, dormant cracks, "birdbaths" and other low areas in existing concrete, reforming concrete steps and curbs and creating ramps

Mixes with water to form a creamy, smooth consistency

Easy to apply; hardens quickly

Installs from 1/4" to 1/2" (6 to 12 mm) neat; up to 2" (5 cm) with aggregate

Freeze-thaw resistant

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

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

Interior or exterior

All grade levels

Dress repaired areas and surrounding concrete with ARDEX CD / CD FINE for a uniform appearance

ARDEX CP™

Concrete Patch

Suitable Substrates

Concrete (structurally sound)

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. 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. Direct sunlight or wind may cause unwanted surface drying. Avoid installation if rain or dew 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

Minimum depth for repair areas: 1/4" (6 mm)

Repair areas must be saw cut in basic rectangular shapes to at least the above minimum depth. The cuts should be made at approximately a 90° angle and should be slightly keyed. Chip out the concrete inside the cuts to the required minimum depth until the area is squared or boxed in shape.

Prepare the substrate using mechanical methods such as scarifying, needle scaling 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 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: 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.

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

Minimum Preparation

In all cases, substrate must be clean; additional prep may be needed, as follows: Create an exposed aggregate surface with a minimum surface profile of approximately 1/16" (1.6 mm) / minimum ICRI concrete surface profile of 5 (CSP #5).

The concrete must receive a light shot blast to remove any surface micro-cracking that may have been introduced by aggressive preparation methods. (ICRI 310.2R-2013).

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 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.

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.

Step 3: Mixing and Application

Recommended Tools

Mixing Paddle; Mixing Container; appropriate measuring bucket; 1/2" (12 mm) heavy-duty drill (min. 650 rpm); margin trowel; steel trowel; razor scraper; wood or magnesium float; straightedge for screeding.

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)
Approximate Pot life and Working Time:	30 minutes (70°F / 21°C)
Thickness of Application:	Minimum Thickness: 1/4" / 6 mm Maximum Thickness: 1/2" / 12.7 mm (Neat) 2" / 5 cm (with aggregate)
Initial Set (Approximate):	30 - 40 minutes (70°F / 21°C)

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 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. Just prior to application on the substrate, the mixture should be stirred again to ensure a creamy, smooth, lump-free consistency.

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.

Application

Work a scrub coat of the mixed material into the concrete substrate with a steel trowel, applying enough pressure to ensure good mortar-to-substrate contact. Apply lift while the scrub coat is still wet. If the scrub coat is allowed to dry, it must be removed mechanically and reapplied before the lift is installed.

Apply lift using a float tool. If necessary, use a straightedge to screed the surface to match the existing elevation.

After initial set, steel trowel to the desired finish.

Cool ambient and surface temperatures will slow the setting time, while high temperatures will accelerate it. Applications when temperatures are above 85°F (29°C) should follow the appropriate warm weather installation guidelines available from the ARDEX Technical Service Department.

Aggregate Extension (as needed)

Extend the product with aggregate as desired / required (see "Thickness of Application" above) as follows:

1. Select washed and well-graded pea gravel that is no larger than 1/3 the depth of the intended pour and no smaller than 1/8". Do not use sand.
2. Mix with water first, and then add 1 part by volume of the selected pea gravel, mixing until the aggregate is completely coated. If the aggregate is wet, reduce the amount of water to avoid overwatering.
3. Note that the addition of aggregate will diminish the workability of the product and may make it necessary to install a neat coat.
4. Prior to installing a neat coat as detailed above, allow the initial application to dry as detailed in "Drying Time" section below.

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.

Light foot traffic:	2 hours
ARDEX CD or ARDEX CD FINE:	4 hours
Waterborne sealer ≤ 20 mils (whether or not ARDEX CD / CD FINE installed)	24 hours

Step 6: Finishing

Product dries to a light gray color. Because concrete color and jobsite conditions vary widely, this product is not intended to match the color of the concrete being repaired or adjacent concrete. Jobsite conditions such as direct sunlight and wind, as well as surface exposure to moisture before product completely sets, can lead to minor color variations.

If a more uniform aesthetic appearance is desired, resurface repaired area and adjacent concrete with ARDEX CD or ARDEX CD FINE and/or seal with an opaque sealer.

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, and avoid full traffic and vehicular traffic until the sealer has dried thoroughly.

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. 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.

Made in the USA.

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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 1/4" (6 mm): 22.5 sq. ft. (2.1 m²) Dependent on surface profile, density and porosity.
Compressive Strength (ASTM C109/mod – Air cure only):	3,000 psi (21 MPa; 210 kg/cm²) 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.
Shelf Life:	12 months, if unopened and properly stored
Warranty:	ARDEX Standard Limited Warranty applies.

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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