



ARDEX CP

Outdoor Concrete Patch

DESCRIPTION

ARDEX CP is a trowel-grade cementitious topping for filling and repairing small areas of outdoor and indoor concrete above, on or below grade. ARDEX CP is easy to apply, hardens quickly, is freeze-thaw resistant, and produces a surface finish that is suitable for foot and rubber tire traffic.

Mix ARDEX CP with water only to a creamy, trowel-grade consistency for filling “birdbaths” and other low areas, as well as for making ramps over existing concrete surfaces including sidewalks, patios, walkways, driveways, garage floors, pool decks and most vertical concrete surfaces. ARDEX CP is engineered with Portland cement and select high-performance polymers. It readily bonds to concrete surfaces, and can be applied by trowel or screed. Once applied and allowed to properly dry, ARDEX CD Concrete Dressing can be installed over the patched area as well as the adjacent concrete to create a uniform appearance.

Use ARDEX CP for filling or re-sloping existing concrete, as well as to fill in small surface defects such as spalls, gouges, and cracks. ARDEX CP can also be used to re-form concrete steps and curbs, as well as to resurface vertical concrete surfaces.

ARDEX CP is recommended for light residential and commercial use only. ARDEX CP is not intended for industrial uses such as loading docks, heavy manufacturing, or areas with heavy truck traffic.

SUBSTRATE PREPARATION

All existing concrete surfaces must be structurally sound, solid and completely clean to include the removal of sealers, curing compounds, patching compounds, dust, dirt, oil, or any other contaminant which may act as a bond breaker. Mechanically abrade the concrete to achieve a fractured aggregate surface and to create a minimum of 1/16” profile by scarifying or similar method resulting in a sound and roughened concrete surface. Saw-cut 1/4” deep or more to create depth boundaries for each patch. Do not use sweeping compounds, solvents, or acid etching as a means of surface preparation. Prior to installing the ARDEX CP, the substrate must be completely dry and must be between 50° and 85°F.

CRACK REPAIR

All moving joints such as expansion joints must be carried up through the ARDEX CP. Moving cracks should be repaired using traditional concrete repair techniques and materials prior to installing ARDEX CP. Saw cuts, control joints and non-moving cracks should be “V’d” out and filled with ARDEX EP 2000 prior to repairing the rest of the area.

ARDEX CP is intended for use to fill and repair existing concrete but is not intended for permanent crack repair. Existing cracks in the concrete can “telegraph” up through the repair. Although repairing cracks in the substrate is always recommended prior to installing ARDEX CP, we cannot warrant that cracks won’t reappear.

RECOMMENDED TOOLS

Mixing bucket, margin trowel, wood or magnesium float, and a steel trowel for finishing. For best mixing results, we recommend the use of a mechanical mixing paddle and a 1/2” heavy-duty drill.

MIXING

STANDARD: The recommended mixing ratio is 5 quarts of water for each 40 lb. bag of ARDEX CP. For less than a full bag, use 2 3/4 parts of powder to 1 part water by volume. Additional water will weaken the mortar and lower its strength.

Place the water in the container first. Add the powder while mixing to a lump-free consistency. The use of mechanical mixing will produce a smoother and creamier consistency with better workability.



INSTALLATION

ARDEX CP is easily applied to any prepared concrete surface. Mechanically remove any loose or contaminated concrete, then broom-sweep and vacuum

the area to be resurfaced thoroughly to remove any fine dust or dirt. Make sure that the concrete is completely dry.

Install ARDEX CP using standard concrete practices. Place the “scratch coat” of the mortar using a steel trowel first. Then, using a wood or magnesium float, place the ARDEX CP in the area to be repaired. If necessary, use a straightedge to screed the surface to match the existing elevation. After the mortar takes an initial set (approximately 30–45 minutes at 70°F), use a steel trowel to finish the ARDEX CP.

THICKNESS OF INSTALLATION

ARDEX CP is to be installed at a minimum depth up to 1/2” neat, and up to 1” when mixed with properly sized (1/8” - 1/4”) pea gravel.

COLOR

ARDEX CP is formulated from Portland cement and is a light gray color when dry. As concrete color and jobsite conditions vary widely, it is not intended that this product will match the color of the concrete being resurfaced or an adjacent concrete pad.

Jobsite conditions such as direct sunlight and wind, as well as the surface of the repair being exposed to moisture before it completely sets, can lead to color variations. To achieve a more desirable aesthetic appearance, we recommend that the repaired area and the adjacent concrete be skim coated with ARDEX CD Concrete Dressing. As an alternative, ARDEX Concrete Guard – Gray can be used to seal the repair and adjacent concrete with a uniform color.

TRAFFIC

ARDEX CP can receive light foot traffic after just 2 hours, can be smoothed with ARDEX CD after 4 hours, and be sealed with ARDEX Concrete Guard after 24 hours. Avoid full traffic and vehicular traffic until the sealer has dried thoroughly.



CURING

Although ARDEX CP requires no special curing procedures, avoid applying this product if rain is expected within 6-8 hours or freezing temperatures could occur within 24 hours of application. As with any cementitious material, the above conditions can alter the appearance and performance of the dressing.

SEALING

As is the case with all concrete surfaces in general, ARDEX CP should be sealed with a waterborne, breathable concrete sealer to prevent dusting and to help resist damage from standing water, salt, oil as well as staining and marking. Ardex recommends the use of ARDEX CG Concrete Guard to seal ARDEX CP as well as other concrete and masonry surfaces. Sealing of the ARDEX CP can proceed after allowing 24 hour drying time at 70°F.

COVERAGE

The coverage of one 40 lb. bag of ARDEX CP is 22.5 sq. ft. at 1/4".

POT LIFE

Approximately 30–40 minutes at 70°F. Pot life will vary with ambient temperatures. If the product begins to set in the bucket, try re-mixing using an electric drill and mixing paddle. Do not add more water! In warm weather, use cold mixing water to extend the working time.

NOTES

ARDEX CP is a cementitious material. Observe the basic rules of concrete work. Working time will be longer at cold temperatures and shorter at high temperatures. Do not install at substrate temperatures below 50°F or above 85°F, when rain is expected within 6-8 hours, or when freezing temperatures are expected within 24 hours. Do not mix with additives. **DO NOT OVERWATER!**

ARDEX CP is intended for repairing interior and exterior concrete subject to foot and rubber-wheeled traffic. Do not use in fountains, inside swimming pools or any areas that will be permanently submerged.

Keep out of reach of children. This product contains Portland cement. Avoid prolonged contact with skin. In case of eye contact, flush eyes repeatedly with water and consult nearest physician.

PACKAGING

Individual 40lb. unit net weight.

STORAGE

Store in a cool, dry area. Do not expose bags to direct sun.

SHELF LIFE

12 months.

TECHNICAL DATA

Coverage: One 40 lb. bag covers approximately 22.5 sq. ft. at 1/4" thickness.

Working Time: 20 minutes at 70°F

Initial Set: 30 minutes at 70°F

Final Set: 60 minutes at 70°F

Compressive Strength, ASTM C109/mod: 3600 psi after 28 days

Mixing Ratio: Mix one 40 lb. bag of powder with 5 quarts of water. For smaller batches, use 2 3/4 parts powder to 1 part liquid.

LIMITED WARRANTY: ARDEX, INC. warrants that if this product proves to have manufacturing defects and ARDEX is notified of such within six months from the date ARDEX shipped the product, ARDEX will replace the defective product f.o.b. factory. Such product replacement shall constitute the sole and exclusive remedy for any claim under this warranty. ARDEX does not authorize anyone, including ARDEX Representatives, to make any statements which supersede, modify or supplement the information provided on its printed literature or package labels without written confirmation from the ARDEX Technical Service Department. Any installations proceeding without this confirmation or mis-installations of the product will void this warranty. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY AND IS STRICTLY LIMITED TO ITS TERMS. ARDEX MAKES NO WARRANTY OF MERCHANTABILITY OR SUITABILITY OF ITS PRODUCTS FOR ANY PARTICULAR PURPOSE. All product demonstrations are placed for illustrative purposes only and do not constitute a warranty of any kind. ARDEX SELLS ITS PRODUCTS UPON THE CONDITION THAT CUSTOMERS SHALL CONDUCT THEIR OWN TESTS TO DETERMINE THE SUITABILITY OF THE PRODUCTS FOR THE CUSTOMERS' INTENDED PURPOSES. UNDER NO CIRCUMSTANCES WILL ARDEX BE LIABLE FOR ECONOMIC, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR LOSSES OF ANY KIND WHATSOEVER ARISING OUT OF OR OCCASIONED BY THE SELECTION, USE, INSTALLATION OR REPLACEMENT OF THESE PRODUCTS.**

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