



ARDEX CD

Concrete Dressing

Portland cement-based concrete surface treatment

Resurface worn and spalled concrete surfaces to provide a “new concrete” finish

Easy to apply and hardens quickly

Freeze-thaw resistant

Suitable for foot and rubber tire traffic

Suitable for commercial and residential applications

Use for interior and exterior floors and walls

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Concrete Dressing

Description

Portland cement-based modified with high-performance polymers for high bond strength. Use ARDEX CD over the surface of existing concrete to produce a new wear layer, as well as to fill in small surface defects such as spalls, gouges, and cracks. Use to restore existing concrete surfaces, including sidewalks, patios, plazas, courtyards, walkways, driveways, parking garages, pool decks, and most vertical concrete surfaces. When mixed with water, the result is a creamy, smooth, slurry consistency that can be applied by trowel, squeegee, or hopper gun. Once applied, ARDEX CD can be broom textured before it sets, for a reduced-slip surface.

Subfloor Preparation

All concrete surfaces must be structurally sound, solid, and free of any contaminant that might act as a bond breaker, including the removal of form release, existing sealers or paints, patching compounds, weak or loose areas, dust, dirt, or oils. If necessary, mechanically clean the floor down to sound, solid concrete by shot blasting, sandblasting, scarifying, grinding, or use of high-pressure power washing. Acid etching, the use of adhesive removers or solvents, and sweeping compounds are not acceptable means of cleaning the substrate. The use of sanding equipment is not an effective method to remove curing and sealing compounds.

Cracks and Saw-Cut Joints

Ardex recommends the use of a two part epoxy crack and joint filler such as MM 80, manufactured by Metzger/McGuire. Use the epoxy to fill non-moving (dormant) cracks in existing concrete surfaces. Cracks greater than a hairline in width (1/32") must be filled with MM 80 or similar in strict accordance with the installation instructions provided by the epoxy manufacturer. The filling of dormant cracks as described above is recommended to help prevent the cracks from showing through the dressing. However, should movement occur, cracks will reappear.

Recommended Tools

Mixing buckets, margin trowel, steel trowel, fine or medium-bristle finishing broom, 3" paintbrush (for edging), squeegee, hopper gun (where required), a mechanical mixing paddle, and a 1/2" heavy-duty drill (min. 650 rpm).

Mixing And Application

For each 40 lb. bag of ARDEX CD, mix with 5 quarts of water. Put clean water in the mixing container first, and then add the ARDEX CD. For best results, mix with a mechanical mixing paddle and 1/2" heavy-duty drill. Using mechanical mixing will produce a creamier and smoother consistency without the need for additional water. Additional water will weaken the dressing and lower its strength. To mix smaller quantities by hand, use 2 3/4 parts by volume of powder to 1 part of water. Use a margin trowel and mix vigorously for 2-3 minutes. Mix thoroughly to obtain a lump-free consistency.

The pot life of ARDEX CD is approximately 30 minutes at 70°F. If the product begins to set in the bucket, remix before using. Do not add more water. In warm weather, use cold water to extend the working time.

For minor patching, filling small holes, gouges or spalls (1" diameter and up to 1/2" deep), mix 4 parts by volume of powder to 1 part water and apply to the prepared surface with a flat steel trowel or putty knife. For larger and deeper repairs, use ARDEX CP CONCRETE PATCH or ARDEX S 21 SMOOTHING COMPOUND. Repair areas should be allowed to set firmly (30-45 min. at 70°F) before applying the finish coat of the dressing. Cool ambient and surface temperatures will slow setting time.

ARDEX CD 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 to avoid the possibility of discoloration of the dressing during cure. Clean out debris from expansion joints and tape or mask the joints off to prevent ARDEX CD from filling the joint. Use a lawn edger to clean around the walk or driveway, as well as around planter boxes and landscaped areas.

Pour the slurry mix onto an area of concrete and flat trowel, squeegee or broom it onto the surface while applying enough pressure to ensure good dressing-to-concrete contact. Once you have achieved the proper coverage, lightly broom-finish the surface to achieve the desired texture.

Use the least amount of material possible to obtain complete coverage over the concrete surface. For maximum coverage, use the flat trowel application technique and then broom-finish. Work in areas small enough so that you can reach the newly applied surface easily to apply the broom-finish without walking on it. Broom-finish as you go but certainly before the dressing takes a firm set (usually 10-15 minutes depending upon jobsite conditions). Maintaining a “wet edge” as you work will help to minimize natural color variations that can occur between sections.

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

Thickness Of Installation

ARDEX CD is to be installed in as thin a layer as can be placed while getting full coverage. Typical installation thickness ranges from 1/16” up to 1/8” and ARDEX CD can be applied at a thickness of up to 1/2” in small, well-defined areas. Please note that thicker areas will take longer to set than a dress coat and will reduce the overall coverage.

Color

ARDEX CD 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 dressing being exposed to moisture before it completely sets, can lead to minor color variations in the appearance of the dressing. Should this condition occur, it can often be completely corrected by pre-wetting the surface of the discolored dressing and misting it with a vinegar solution diluted with 3 parts of water. Allow the vinegar to stand on the surface for a minimum of 10 minutes without allowing it to dry. Rinse clean and allow to dry thoroughly. Should the condition persist, the use of a pigmented sealer such as ARDEX CG GRAY CONCRETE GUARD, may be required. Consult the ARDEX Technical Service Department for additional information.

Curing

Although ARDEX CD 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 CD 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 CD as well as other concrete and masonry surfaces. Sealing of the ARDEX CD can proceed as soon as the dressing hardens sufficiently to work on without damaging the surface.

Notes

The pot life of ARDEX CD is approximately 30 minutes at 70°F. Pot life will vary with ambient temperatures.

In the event that pinholes develop in the dressing due to the concrete being highly absorbent, the prepared concrete surface should first be primed with ARDEX CG CLEAR CONCRETE GUARD mixed 1:1 with water. Allow the primed area to dry thoroughly (1-3 hours) prior to installing the ARDEX CD.

ARDEX CD is intended for resurfacing 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.

ARDEX CD is recommended for residential and commercial use only. ARDEX CD is not intended for industrial uses such as heavy manufacturing or areas with heavy truck traffic. ARDEX CD must be worked at temperatures over 50°F.

Precautions

ARDEX CD contains Portland cement and sand aggregate. Avoid eye and skin contact. Mix in a well ventilated area and avoid breathing powder or dust. KEEP OUT OF REACH OF CHILDREN. Carefully read and follow all cautions and warnings on the product label.

Physiologically and ecologically friendly when set. Never mix with cement or additives other than Ardex approved products. Observe the basic rules of concrete work. Do not install below 50°F surface temperature. Install quickly if substrate is warm and follow hot weather instructions available from the ARDEX Technical Service Department.

Technical Data According To Ardex Quality Standards

(All data based on a mixing ratio of 2¾ parts powder to 1 part by volume of water at 70°F)

Mixing Ratio: 5 quarts of water per one 40 lb. bag; for smaller batches, mix 2¾ parts powder to 1 part water

Material Requirements on Smooth Substrate (approx.):

100-120 sq. ft. per bag at 1/16";
50-60 sq. ft. per bag at 1/8"
(Application methods and the texture of the concrete being coated will affect these rates)

Open Time: Approx. 10 minutes

Working Time: 30 minutes

Pot Life: 30 minutes

Walkable: Light foot traffic in 2 hours;
vehicular traffic in 6-8 hours

Packaging: 40 lb./18 kg net weight in paper bags

Storage: Store in a cool dry area.
Do not expose bags to sun.

Shelf Life: One year

Warranty: Ardex Engineered Cements Standard Limited Warranty applies.

Limited Warranty

Ardex, L.P. 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 misinstallations 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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