Notes

This product is intended for interior use over dry substrates only. Do not use in areas of constant water exposure, or in areas exposed to permanent or intermittent substrate moisture, as this may jeopardize the performance of the topping and sealer. Test for moisture using the relative humidity method in accordance with ASTM F2170. Where substrate moisture is greater than 75% RH, install ARDEX MC ULTRA. For further information, please refer to the ARDEX Technical Brochure.

ARDEX PANDOMO Loft wear surfaces are not intended to be perfectly homogeneous in appearance. The physical act of troweling, along with the sanding process, will result in optical variations in the appearance of the floor even though it is very flat. The aesthetic appearance of the floor that is created is subject to possible technical and artistic tolerances. Variations in the overall finished appearance are an intended effect and should be expected.

Always install an adequate number of properly located test areas, including the processing and ARDEX PANDOMO ES/PS Protective Wear Layer System. A sample mock-up of the finished floor must be made on site and approved by the owner's representative, including the suitability for intended use and aesthetics, and should be evaluated and approved under the planned lighting conditions for the finished floor. Acceptance of the floor must be made immediately after completion of the floor and it remains the responsibility of the owner's representative to protect the finished surface with a breathable covering until the space is opened for final use.

The finished ARDEX PANDOMO floor does not achieve its published surface hardness until after 28 days.

While ARDEX PANDOMO Loft can be installed over concrete that contains in-floor heating, ARDEX PANDOMO Loft should not be used to directly encapsulate any heating system. If the concrete substrate has in-floor heating, it should be turned off and the concrete allowed to cool before installing ARDEX PANDOMO Loft.

Low substrate temperatures require longer drying times for ARDEX products. Do not install ARDEX PANDOMO K2 before the primer has dried thoroughly. Low temperatures will also extend the drying time needed before processing the surface.

Never mix with cement or additives other than ARDEX approved products. Observe the basic rules of concrete work. Acclimate the space and materials in accordance with the guidelines outlined above.

Precautions

ARDEX PANDOMO K2 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 product label. For complete safety information, please refer to the Material Safety Data Sheet available at www.ardexamericas.com.

Technical Data According to ARDEX Quality Standards

All data based on a mixing ratio of 3.25 parts powder to 1 part water by volume at 70°F (21°C)

Mixing Ratio:	5 1/4 quarts (5 liters) of water per 55 lb. (25 kg) bag
Coverage:	Coverage: 100 to 120 sq. ft. (9.3 to 11.1 m^2) per bag in 2 coats (Actual coverage may vary based on surface texture)
Thickness:	1/16" to 3/16" (1.5 to 4.5 mm)
Working Time:	10 minutes
Initial Set (ASTM C191):	Approx. 10 minutes
Final Set (ASTM C191):	Approx. 45 minutes
Compressive Strength (ASTM C109/mod – Air cure only):	~4600 psi (323 kg/cm^2) at 28 days
Flexural Strength (ASTM C348):	1400 psi (98 kg/cm^2) at 28 days
Walkable:	approx. 3 hours after second coat
Begin Processing:	6 to 12 hours
Color:	White
Packaging:	55 lb. (25 kg) net weight in paper bags
Storage:	Store in a cool, dry area. Do not leave bags exposed to sun.
Shelf Life:	6 months
Warranty:	ARDEX Engineered Cements Standard Limited Warranty applies.

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ARDEX PANDOMO® K2

Design Micro-Topping Compound for ARDEX PANDOMO® Loft Wear Surfaces (White)

Use to create ARDEX PANDOMO® Loft wear surfaces

Fast-setting and self-drying

Trowel grade

For thicknesses from 1/16" up to 3/16" (1.5 to 4.5 mm)

Highly durable surface

White color allows a wide range of colors when pigmented with ARDEX PANDOMO® CC Color Concentrates

Portland cement-based

Use over new or existing concrete

For commercial, retail and residential applications

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ARDEX PANDOMO® K2

Design Micro-Topping Compound for ARDEX PANDOMO® Loft Wear Surfaces (White)

Description and Usage

ARDEX PANDOMO K2 is a self-drying, trowel-applied micro-topping for fast-track resurfacing of indoor concrete. Installed at a thickness from 1/16" to 3/16" (1.5 to 4.5 mm), use ARDEX PANDOMO K2 for producing high-end, hand troweled, creatively designed ARDEX PANDOMO Loft wear surfaces. Use in areas subject to light or medium loads, and for foot traffic such as retail stores, shops, hotels, cafés, vestibules and private residences.

Substrate Preparation

All concrete substrates must be solid, thoroughly clean and free of oil, wax, grease, asphalt, latex and gypsum compounds, curing and sealing compounds, and any other contaminant that might act as a bond breaker. If necessary, mechanically clean the substrate down to sound, solid concrete by shot blasting or similar. Overwatered, frozen or otherwise weak concrete surfaces must also be cleaned down to sound, solid concrete by mechanical methods. The prepared concrete must have a minimum ICRI Concrete Surface Profile of 3 (CSP #3). Any additional preparation needed to achieve this must likewise be mechanical. Acid etching, adhesive removers, solvents, sweeping compounds and sanding are not acceptable means for cleaning the substrate. Substrates must be dry and properly primed for a successful installation. Substrate and ambient temperatures must be a minimum of 50°F (10°C) for the installation of ARDEX products. For further information, please refer to the ARDEX Substrate Preparation Brochure.

Because ARDEX PANDOMO Loft is a thin micro-topping, the existing substrate must be reasonably flat and smooth prior to installation. If needed, pre-level the area using ARDEX PANDOMO CF1 at a minimum thickness of 1/4" (6 mm) or more to achieve the desired tolerance (please refer to the technical data sheet for this product). After a minimum drying time of 16 hours, prime the surface of the ARDEX PANDOMO CF1 as outlined in the priming section below prior to installing ARDEX PANDOMO K2.

Recommended Tools

Mixing and Application: ARDEX T-1 Mixing Paddle, ARDEX T-10 Mixing Drum, ARDEX MB-5.25 Measuring Bucket (5 1/4 quarts/5 liters per 55 lb./25 kg bag), a steel trowel and a 1/2" (12 mm) heavy-duty drill, min. 650 rpm.

Surface Processing: Laegler TRIO Machine, Festool ROTEX RO 150 FEQ-Plus Hand Sander with vacuum, sanding and burnishing discs, and a lamb's wool applicator or roller appropriate to the sealer being applied.

Cracks and Joints

Before proceeding with the installation, all dormant cracks greater than 1/32" (0.79 mm) wide must be prefilled with ARDEX ARDIFIX™. Please note that repair material must be sand broadcast to refusal while still fresh and allowed to cure fully (approx. 45 min.), followed by removing all excess sand.

Under no circumstances should ARDEX PANDOMO K2 be installed over any joints or moving cracks. All existing expansion joints, isolation joints, construction joints and control joints (saw-cuts), as well as any moving cracks, must be honored up through the topping. Failure to do so may result in cracking and/or disbonding of the topping. Even the slightest amount of movement in control joints will cause the ARDEX PANDOMO K2 to show hairline cracks in a pattern reflective of the joint.

ARDEX cannot be responsible for problems that arise from joints, existing cracks, or new cracks that may develop after the system has been installed.

Priming

ARDEX PANDOMO Loft requires priming with ARDEX EP 2000™ SUBSTRATE PREPARATION EPOXY. Follow general recommendations for substrate preparation above, and apply the ARDEX EP 2000 with a sand broadcast, carefully following the instructions given in the ARDEX EP 2000 Technical Brochure.

For a faster priming system, substitute ARDEX MC™ RAPID with sand broadcast for the ARDEX EP 2000 using standard installation procedures. Work can proceed over ARDEX MC RAPID after 4 hours of curing. Please note that when used in this manner, ARDEX MC RAPID is not considered a moisture control system. If moisture control is needed (greater than 75% RH when measured in accordance with ASTM F2170), ARDEX MCTM ULTRA must be used instead.

Thickness of Application

ARDEX PANDOMO K2 can be installed from 1/16" up to a maximum of 3/16" (1.5 to 4.5 mm). If pre-leveling is needed, use ARDEX PANDOMO CF1 at a minimum thickness of 1/4" (6 mm) as noted above.

Mixing and Application

For the application and drying of ARDEX PANDOMO floors, the space, substrate and products must be acclimated to 50° to 77°F (10 to 25°C), and an ambient relative humidity of 40 to 60%.

ARDEX PANDOMO K2 is mixed 1 to 2 bags at a time. For best results, pre-blend the total anticipated quantity of water with the prescribed amount ARDEX PANDOMO CC Color Concentrates to minimize color variation between batches. Mix each 55 lb. (25 kg) bag with 5 1/4 quarts (5 liters) of water. Pour the pigmented water in the mixing drum first, then add each bag of ARDEX PANDOMO K2 while mixing with an ARDEX T-1 Paddle and a 1/2" (12 mm) heavy-duty drill, 650 rpm. Mix thoroughly for approximately 2 to 3 minutes to obtain a lump-free mix. **Do not overwater!**

ARDEX PANDOMO K2 is installed in two coats and has a working time of 10 minutes at 70°F (21°C). For the first coat, pour the mix onto the floor and flat trowel it onto the prepared substrate. Use wide sweeping passes with the trowel to enhance the aesthetic appearance of the surface. The second coat of ARDEX PANDOMO K2 is applied once the first coat is firm enough to work on, but still damp (approx. 30 to 60 minutes). Smooth trowel the surface to obtain the desired finish effect.

Processing (Sanding) the ARDEX PANDOMO K2 Surface

The processing of the ARDEX PANDOMO K2 surface is key to the success of the installation. Once the second coat of ARDEX PANDOMO K2 has dried for a minimum of 6 to 12 hours at 70°F (21°C), sand the dry surface using a Laegler TRIO Machine and a standard wood finishing 60 grit sandpaper. Sand with at least two passes, with subsequent passes always done at a 90° angle to the previous pass. For best results, proceed with each pass at a slow, steady walking pace. After the sanding process, buff the entire surface with a floor burnisher and a white pad to remove any residual dust. Please note in each stage of the processing, the edges should be done using the Festool hand sander and same grit sanding disc.

Tips for a Successful Installation

- Continue to mix the pigmented water to keep the color concentrate from settling out.
- The ARDEX PANDOMO K2 surface cannot be too hard, but it can be too soft. If it still feels cold or damp after 6 to 12 hours, wait a little longer before processing.
- When applying the second coat, wear soft, flat rubber-soled shoes and avoid placing heavy objects (i.e. the mixing bucket) on the surface of the previous coat.
- Avoid hard-shell knee pads.
- Start up the sanding machine with the discs in the air rather than on the floor, and begin forward motion as the discs come in contact with the surface.
- Placing the sanding heads on the floor can sometimes cause an aggressive initial cut, so always try to start processing in an unobtrusive place (behind a door, in a corner, etc.).
- Keep the sanding machine moving. Pausing can cause variations in the finished appearance.
- Cleanliness is important when processing the surface! Make sure machine contacts with the floor are clean, and wear protective booties over shoes to prevent marking.
- Not all sand paper is created equal, so exercise caution and always break in the sanding discs before applying them to the ARDEX PANDOMO K2 surface.
- Sanding discs will last for approximately 215 to 270 square feet (20 to 25 m^2), so be sure to change them as needed when processing the surface.
- When sealing ARDEX PANDOMO K2, do not place sealer containers directly on the surface.
- The ARDEX PANDOMO Loft installation must be completed in a continuous fashion, including application of the sealer. If any part of the process is interrupted by other trades, it is likely to cause aesthetic variance, and potentially irreparable damage.
- Do not drip or spill any liquids on the ARDEX PANDOMO K2 surface throughout the entire installation process.

Wear/Stain Protection

Once installed and processed, ARDEX PANDOMO K2 surfaces must always be protected by a suitable ARDEX wear protection system.

For residential and light duty areas only, ARDEX PANDOMO SL STONE OIL can be applied in accordance with the instructions provided in the ARDEX PANDOMO SL Technical Brochure. Please note that the installation of ARDEX PANDOMO SL will darken the surface permanently and will shift the color slightly towards an amber hue. ARDEX PANDOMO SL produces a very "warm" looking surface that requires light periodic maintenance.

For all other installations, as well as for any areas with a higher potential for staining, use the ARDEX PANDOMO ES/PS Protective Wear Layer System in accordance with the performance properties desired, and as described in each of the technical brochures.

Once installed, any finished floor surface requires routine cleaning and maintenance. For recommended maintenance procedures, please refer to the ARDEX PANDOMO Maintenance Guide. Cleaning an ARDEX PANDOMO floor is very easy but must be performed in strict accordance with the printed cleaning guidelines. It is strongly recommended that a maintenance contract be reviewed and agreed upon with the installer to best preserve the value of the floor.

ARDEX PANDOMO K2 wear surfaces are intended for commercial, retail and residential applications. Steel- or hard plastic-wheeled traffic, or dragging metal gondolas or loaded racking over the surface, is abusive and will cause scratching, gouging and indentations. As with any floor covering (wood, soft natural stone, marble, etc.), allowances must be made for scratches or abrasion that occur due to moving or sliding furniture or fixtures over the surface. Keeping the floor surface clean and free of dirt or other contaminants will also help to minimize scratching and abrasion due to foot traffic. ARDEX PANDOMO K2 is not a resurfacing topping for manufacturing or industrial floors, or for chemical environments requiring customized toppings.

Protecting the Finished Installation

Whenever possible, ARDEX PANDOMO K2 installations should be scheduled as the final step in the construction process. If this is not possible, please note that depending on the sealer selected, the installation should not be open to full traffic for 2 to 7 days after the installation is sealed, as appropriate to the wear/stain protection system installed. To protect the installation from damage due to trade or construction traffic, cover it with Surface Shields Builder Board™. Using other, non-breathable covers may cause surface discoloration.

Cracks

ARDEX PANDOMO K2 is formulated as a highly durable, non-structural wear surface. As such, it is important to note no one can predict with 100% accuracy the appearance of cracking in a non-structural topping. While there can be several causes for cracking, it must first be understood that the installation of thin layers of non-structural toppings are not capable of restraining movement in the structural slab, which could lead to reflective cracking. Areas most likely to telegraph include those with deflection in the concrete slab, vibration of the concrete slab in metropolitan areas due to truck traffic and subways, high rise buildings that sway or "rack" in the wind, existing cracks in the floor, control joints or saw-cuts, expansion joints, and small cracks off corners of metal inserts like electrical boxes or vents in the floor. While priming with ARDEX EP 2000 is the best way to minimize the possibility of reflective cracking, cracks may telegraph up into the surface in any area that exhibits movement. There is no known method to prevent telegraphing from occurring.