ARDEX PANDOMO® CF1
Commercial Design Leveling Compound for ARDEX PANDOMO® Floor and FloorPlus (White)

Use to create ARDEX PANDOMO® Floor and FloorPlus wear surfaces
Fast-setting and self-drying
For thicknesses from 1/4” up to 1” (6 to 24 mm)
Self-leveling
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 light industrial applications
ARDEX PANDOMO® CF1
Commercial Design Leveling Compound for ARDEX PANDOMO

Description and Usage
ARDEX PANDOMO® CF1™ is a self-drying, self-leveling, no
troweling topping for fast-track resurfacing, smoothing or
levelling of indoor concrete. Formulated with a blend of Portland
and other hydraulic cements, along with special redispersable
powdered polymers and selected sand aggregates, ARDEX
PANDOMO CF1 can be installed from 1/4” to 1” (6 to 24 mm)
in one operation, hardens quickly and can be lightly walked
on in as little as 2 to 3 hours. Use ARDEX PANDOMO CF1
for producing high-end, creatively designed wear surfaces of
ARDEX PANDOMO Floor and FloorPlus in commercial areas such
as retail stores, shops, hotels, cafés and vestibules, or even for
light industrial use.

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 IRCI Concrete Surface Profile of 3 (CSP #3). Any
additional preparation needed to achieve this must likewise
be mechanical. Acid etching, adhesive removers, solvents,
weeping 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.

Recommended Tools
Mixing and Application: ARDEX T-1 Mixing Paddle, ARDEX
T-10 Mixing Drum, ARDEX T-4 Spreader, ARDEX T-5 Smoother,
ARDEX MB-5.25 Measuring Bucket (5 1/4 quarts/5 liters per
50 lb/22.7 kg bag), and a 1/2” heavy-duty drill (12 mm, min.
650 rpm).

Surface Processing: Laegler TRIO Machine, Festool ROTEX
R0 150 FEQ-Plus Hand Sander with vacuum, sanding and
burnishing discs, and a lint-free roller for the sealer.

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 the 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 CF1 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 honed 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 a control joint will cause the ARDEX PANDOMO
CF1 to show a hairline crack 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 Floor and FloorPlus require priming with
ARDEX EP 2000™ SUBSTRATE PREPARATION EPOXY. Follow
the 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 only 4 hours of curing. Please note that while
ARDEX PANDOMO CF1 does flow to seek its own level, the
overall finished floor flatness is dictated by the flatness of the
existing substrate and the thickness of the topping applied.

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 40-60%.
ARDEX PANDOMO CF1 is mixed 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 50 lb (22.7
kg) bag with 5 1/4 quarts (5 liters) of water. Pour the pigmented
water in the mixing drum first, and then add each bag of ARDEX
PANDOMO CF1 while mixing with an ARDEX T-1 Paddle and a
1/2” heavy-duty drill (12 mm, min. 650 rpm). Mix thoroughly for
approximately 2 to 3 minutes to obtain a lump-free mix. Do not
overwater! Excessive foam while mixing or settling of the sand
aggregate while placing indicates overwatering.

ARDEX PANDOMO CF1 has a flow time of 10 minutes at 70°F
(21°C). Pour the liquid mix on the floor and spread with the
ARDEX T-4 Spreader. Immediately smooth the material with the
ARDEX T-5 Smoother in a wavy pattern to enhance the aesthetic
appearance of the surface. Wear baseball or soccer shoes with
non-metallic cleats to avoid leaving marks in the liquid ARDEX
PANDOMO CF1.

For information on pumping, please consult the ARDEX
Technical Service Department.

ARDEX PANDOMO FloorPlus
To create ARDEX PANDOMO FloorPlus surfaces, float
approximately 2.5 oz. (70.9 g) by weight per 10 sq. ft. (0.93
m²) of ARDEX PANDOMO HG (white, black or gray) into the
freshly spread and smoothed ARDEX PANDOMO CF1. Do not
disturb the surface of the topping once the ARDEX PANDOMO
HG has been floated.

**Processing the ARDEX PANDOMO**

**CF1 Surface**

The processing of the ARDEX PANDOMO CF1 surface is key to
the success of the installation. When using ARDEX PANDOMO
CF1, the processing is the same for both ARDEX PANDOMO
Floor and FloorPlus surfaces.

Once the ARDEX PANDOMO CF1 has been allowed to dry for
a minimum of 24 hours (70°F/21°C), sand the dry surface
using the Laegler TRIO Machine and standard wood finishing
120 to 150 grit sandpaper. The color selected and age of the
installation when processed will determine the grit size. 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 that
for each stage of the processing, the edges should be done
using the Festool hand sander and same grit sanding disc.

For scheduling purposes, please note that the space to receive
the ARDEX PANDOMO floor must be made available to the
contractor for a minimum of seven days without any disruption.
During this period it is essential that no work is carried out
other than the work in question and that only the contractor’s
personnel are allowed to enter the site, since the floor must not
be generally trafficked until after drying and the final coating and
treatment have been applied.

**Tips for a Successful Installation**

- Continue to mix the pigmented water to keep the color
  concentrate from settling out.
- The ARDEX PANDOMO CF1 surface cannot be too hard,
  but it can be too soft. If it still feels cold or damp after 24
  hours, wait a little longer before processing.
- 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 the 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 CF1 surface.
- Sanding discs will last for approximately 215 to 270 square
  feet (20 to 25 m²), so be sure to change them as needed
  when processing the surface.
- When sealing ARDEX PANDOMO CF1, do not place sealer
  containers directly on the surface.
- The ARDEX PANDOMO Floor/FloorPlus 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 onto the ARDEX PANDOMO
  CF1 surface throughout the entire installation process.

**Wear/Stain Protection**

Once installed and processed, the ARDEX PANDOMO CF1
surface must always be protected by a suitable ARDEX wear
protection system. Use the ARDEX PANDOMO ES/PS Protective
Wear Layer System as described in each of the technical
brochures.

Once sealed, any finished floor surface requires routine cleaning
and maintenance. For recommended maintenance procedures,
please refer to the ARDEX PANDOMO Maintenance Guide.

**Protecting the Finished Installation**

Whenever possible, the ARDEX PANDOMO CF1 installation
should be scheduled as the final step in the construction
process. If this is not possible, please note that the installation
should not be open to full traffic for 7 days after the installation
is sealed. 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 CF1 is formulated as a highly durable,
non-structural wear surface. As such, it is important to note
that 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 the corners of metal inserts such as 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. We know of no method to prevent this telegraphing from occurring.

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 Floor and FloorPlus wear surfaces are not intended to be perfectly homogeneous in appearance. The physical act of spreading and smoothing, 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 Floor and FloorPlus can be installed over concrete that contains in-floor heating, ARDEX PANDOMO Floor and FloorPlus 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 Floor or FloorPlus.

Low substrate temperatures require longer drying times for ARDEX products. Do not install ARDEX PANDOMO CF1 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 CF1 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 4 parts powder to 1 part water by volume at 70°F (21°C)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Mixing Ratio:</td>
<td>5 1/4 quarts (5 liters) of water per one 50 lb (22.7 kg) bag</td>
</tr>
<tr>
<td>Coverage:</td>
<td>25 sq. ft. per bag at 1/4&quot; (2.3 m² at 6 mm)</td>
</tr>
<tr>
<td></td>
<td>12.5 sq. ft. per bag at 1/2&quot; (1.2 m² at 12 mm)</td>
</tr>
<tr>
<td>Flow Time:</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Initial Set (ASTM C191):</td>
<td>Approximately 10 minutes</td>
</tr>
<tr>
<td>Final Set (ASTM C191):</td>
<td>Approximately 45 minutes</td>
</tr>
<tr>
<td>Compressive Strength (ASTM C109/mod – Air cure only):</td>
<td>~5000 psi (352 kg/cm²) at 28 days</td>
</tr>
<tr>
<td>Flexural Strength (ASTM C348):</td>
<td>1000 psi (70 kg/cm²) at 28 days</td>
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<tr>
<td>Walkable:</td>
<td>2 to 3 hours</td>
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<tr>
<td>Begin Processing:</td>
<td>24 hours</td>
</tr>
<tr>
<td>Color:</td>
<td>White</td>
</tr>
<tr>
<td>Packaging:</td>
<td>50 lb (22.7 kg) net weight in paper bags</td>
</tr>
<tr>
<td>Storage:</td>
<td>Store in a cool dry area. Do not leave bags exposed to sun.</td>
</tr>
<tr>
<td>Shelf Life:</td>
<td>6 months, if unopened.</td>
</tr>
<tr>
<td>Warranty:</td>
<td>ARDEX Engineered Cements Standard Limited Warranty applies.</td>
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</tbody>
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