panDOMO®
Floor
FloorPlus

panDOMO® Specification

For the surface preparation and installation of the panDOMO® K1 Floor or FloorPlus finish

Applications:
For internal use.

Floor - For producing insitu, cementitious visual and wearing surfaces of PANDOMO® K1 in low impact areas such as residential projects.

FloorPlus - contains an additional 30% abrasion resistance, compared to PANDOMO® K1 and can be used in medium shock and impact areas, e.g. in shops, hotels, cafés, vestibules, exhibition halls, offices etc.

Type:
PANDOMO® Floor, or K1, is an off white powder with special cements, good dispersible synthetic substances and selected fillers. Mixed with water, the product produces a pliable, self-smoothing mortar which can be applied with a trowel and be pumped.

The working time is on average 15 – 10 minutes, less in hotter periods, more in colder periods. It is walkable after approx. three hours. (+20 degrees C)

The mortar cures by “Ardurapid” technology and curing to a compound which chemically utilises the mixing water in building a reinforced crystalline structure reducing shrinkage in the floor finish. Styling work not leading to sealing of the surface, e.g. joints and sand -blasting operations etc., can be carried out once the surface is walkable.

Preparation of substrate:
PANDOMO® K1 Floor or FloorPlus are designed for installation over dry, internal, crack free concrete subfloors which are firm and free from dust.

For application over concrete subfloors prone to future cracking or suitable under floor heating systems, refer to current ARDEX A38 datasheet, available at www.ardexaustralia.com or by contacting Ardex Australia. Bonded systems in these situations will experience cracking through movement.

The substrate should be shot- blasted or diamond ground to remove impurities, parting agents, loose upper zones and binding agent concentrations.

In order to improve bonding and to prevent rising of air bubbles, the substrate must first be primed with ARDEX P51, diluted 1: 3 with water. After drying of the primer – depending on the absorbency of the substrate and the site conditions – after 1–2 hours the second coat of ARDEX P51, diluted 1:1 with water, is applied.

To avoid colour differences at mixed substrates and repel against rising damp from the substrate, the substrate has to be primed and sand blinded with 2 coats of ARDEX WPM 300. The first coat as per the datasheet and second broadcast with PANDOMO® HG sand (see technical leaflet).

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This primer ensures the ideal adhesion to the substrate and prevents ant holes from rising air bubbles. On the following the day, excess sand must be swept or hovered away.

At higher room temperatures and high pigment content in the mixing water, the substrate which has been cleaned of the excess loose sand, should be primed with ARDEX P51 in the ratio 1:1 to avoid pin holing.

Elastic edge strips should be placed against adjacent structural elements, and can be sealed later, including permanently elastic sealing.

The substructure must be permanently dry.

If in doubt, prepare a trial surface.

Use:
To a clean mixing vessel mix 5 – 5.25 L of clear water with PANDOMO® colour concentrates and mix the 25kg of K1 powder, stirring vigorously for at least 2 mins., until a smooth, easily flowing mortar is obtained.

At temperatures of +18 °C to +20 °C the mortar can be used for approx. half an hour, lower temperatures increasing the pot life and higher temperatures shortening it.

Pumping:
The mortar can be pumped using spiral pumps, reciprocating pumps and continuously operating mixing pumps, with a delivery of around 20 – 40 l of mortar per minute.

If the mortar is to be pumped, cement slurries must not be used as a lubricant. Where standing times exceed half an hour, both machine and hoses must be cleaned.

Applying the mortar:
The minimum layer thickness of PANDOMO® K1 is 5 mm.

The material can be applied in a single operation up to 10 mm thick.

For layer thicknesses over 10 mm, the surface must first be levelled with ARDEX K80; the total layer thickness must not exceed 20 mm.

For layers thicker than 20 mm a bonded or unbonded screed (depending on thickness) of ARDEX A38 must be installed. Refer to ARDEX A38 datasheet for further information.

PANDOMO® K1 mortar can be applied using a spreading tool and smoothed with a large-area float or levelling trowel.

Use PANDOMO® K1 at temperatures above +5 °C.

Creating FloorPlus:
To create PANDOMO® FloorPlus surfaces small amounts of PANDOMO® HG, approx. 70 - 80 gr/m², get applied immediately after troweling the PANDOMO® K1 surface.

Expansion joints:
Cracks caused by dynamic processes inside the building are transferred to the surface.

Expansion joints within the substrate must be carried through the finish. The construction supervisor may instruct to add additional expansion joints.

In accordance with normal practise, expansion joints can be sealed in a way as to remain permanently elastic.

A number of special profiles are available for expansion joints in different designs (even for coloured joints).

Sealing:
The sealer chosen should be project specific and is dependent on performance requirements and gloss level needing to be achieved.

PANDOMO® has a standard sealing system offered to achieve a satin finish. Please contact Ardex to discuss sealer performance requirements.

Sealing may be done approx. 24 hours (at +20 °C) after the PANDOMO® K1 floor has been laid. If drying conditions are unfavourable, correspondingly longer waiting times should be allowed for before the sealing is applied.

Prior to the application the dry surface has to be polished in 3 steps (60, 80, 120 grit) with a 3 head machine (TRIO).
PANDOMO® FloorPlus surfaces are polished in one step (either 60 or 80 grit).

With a single disc machine and a white pad fine dust particles have to be removed from the surface. The stone oil can only be applied onto clean and dust free surfaces.

N.B.:
PANDOMO® K1 cannot be use outside or in permanently wet areas or directly over waterproofing membranes.

Heating cables cannot be embedded in the floor finish. (Refer to Ardex A38 datasheet)

Note:

A sufficiently large sample, or trial area should be completed for approval by the client.

Contains cement. Causes alkaline reaction. Therefore, protect skin and eyes. If product comes into contact with the skin, rinse thoroughly with water. If product comes into contact with eyes, consult a doctor as well.

Physiologically and ecologically harmless in the cured state.

GISCODE ZP1 = product containing cement, relatively chromate-free.

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