FOR GOOD REASONS

panDOMO® K 1

Design, levelling compound, white

To create PANDOMO® Floor and FloorPlus Surfaces

With ARDURAPID® effect

Fast drying

For layer thicknesses of from 5 to 10 mm

Ideal flow properties

Self-levelling

Crack-free even in thick layers

Can be pumped

Soon walkable

Soon load-bearing

GEV-EMICODE EC 1 PLUS very low emission

ARDURAPID

CERTIFIED DIN EN ISO 9001 QUALITY SYSTEM Reg. No. 37344

Manufacturer
with certified quality system
as per DIN EN ISO 9001

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panDOMO® K1

Design, levelling compound, white

Applications:

For inside use.

For producing prestigious, creatively designed visual and wearing surfaces of PANDOMO® Floor and FloorPlus subject to moderate shok and impact loads, e.g. in shops, hotels, cafés, vestibules, private living areas, exhibition halls, etc.

Type:

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 spatula and be pumped.
It has a pot-life of approx. half an hour and is walkable after approx. three hours.

The mortar cures by hydration and drying to a compound which is so stress-free as to virtually exclude the risk of crack-formation. 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:

The substrate, made of concrete or cement screed (minimum strength grade CT-C25-F4 or calcium sulfate screeds (CA-C35-F6) must be dry, firm and free from dust. The substrate should be shot-peened or sandblasted 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 (new sand cement screeds concrete or leveling compounds) must first be primed with PANDOMO® PR, 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 PANDOMO® PR, diluted 1:1 with water, is applied.

The substrate has to be primed and sand blinded with PANDOMO® EP (see technical leaflet) to avoid colour differences at mixed substrates,
calcium sulfate screeds, rough cement screeds or blasted screeds and against rising damp from the substrate.

At higher room temperatures and high pigment content in the mixing water, the substrate which has been cleaned before from sand, should be primed with PANDOMO® PR in the ratio 1:1 to avoid pinholing.

The substructure must be permanently dry.

If in doubt, prepare a trial surface.

Use:

To use PANDOMO® K1 on concrete or cement screeds 25 kg PANDOMO® K1 are mixed with 5 – 5.25 l of water. To a clean mixing vessel add clear water or water dyed with PANDOMO® colour concentrates and mix the 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.

For application on calcium-sulfate-based flow screeds, warm water floor heating, PANDOMO® K1 has to improved with ARDEX E 25. The substrate has to be primed with PANDOMO® EP.
Mixing ratio: 4.5 l water + 1 l ARDEX E 25 : 25 kg powder.

The mortar spreads easily and can be smoothed without crusting.

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 primed with PANDOMO® K1; the total layer thickness must not exceed 20 mm.

For layers thicker than 20 mm a bonded screed has to be installed.

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

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

Smaller building sites: Add approx. 10 – 10.5 l clear water to a mixing vessel with an approx 50 l capacity.
Using a powerful drilling machine with a robust stirrer quirl, mix 50 kg = 2 bags PANDOMO® K1 powder until a smooth, homogeneous, easily flowing mortar is obtained.

Larger building sites: The mortar can be pumped using spieal pumps, reciprocating pumps and continuously operating mixing pumps with a delivery of around 40 – 80 l of mortar per minute.

If the mortar is to be pumped, cement slurries must not be used as a lubrivant.

Where standing times exceed half an hour, both machine and hoses must be cleaned.

Application on underfloor heating:

If PANDOMO® flooring systems are used on a piped, water-based floor heating system the maximum intake temperature should not be above +40°C and the core temperature of the load bearing construction as well as the surface temperature should not be above +28°C. The before mentioned values should also be observed in the initial heating and during the heating periods.

FloorPlus:

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

Sealing:

To seal the polished PANDOMO® K1 surface only PANDOMO® system products such as PANDOMO® SP-SL stone-oil and PANDOMO® SP-PS and PANDOMO® SP-GS can be used (see Technical Data Sheets).

Prior to the application the dry surface has to be polished in three steps (100, 120, 150 grid) with a 3 head machine (TRIO). 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. PANDOMO® FloorPlus surfaces are polished in one step (60 grid).

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

Note:

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 ZP 1 = product containing cement, relatively chromate-free.

European patent no.: 0884291

CE
0432

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53181
EN 13813:2002

panDOMO K1
Self Leveling Compound
EN 13813:CT-C25-F7-AR0,5

Compressive strength:	≥ 25 N/mm²
Flexural strength:	≥ 7 N/mm²
Abrasion resistance according to BCA:	≤ 50 µm
Bond strength:	NPD
pH value:	NPD
Reaction to fire:	$A2_{fl}$-s1

panDOMO® K1

Design, levelling compound, white

Technical data according to ARDEX quality standards:

Mixing ratio:	approx. 5 – 5.25 l water (clear or dyed) : 25 kg powder, equal to 1 p.b.v. water : 3.5. p.b.v. powder
Bulk weight:	approx. 1.4 kg/l
Fresh weight mortar:	approx. 2.0 kg/l
Material required:	approx. 1.5 kg per m^2 and mm
Pot Life (+20 °C):	approx. 30 min.
Walkable (+20 °C):	after approx. 3 h
Styling work:	as soon as walkable
Compressive strength:	after 1 day approx. 13 N/mm^2 after 7 days approx. 20 N/mm^2 after 28 days approx. 30 N/mm^2
Flexural tensile strength:	after 1 day approx. 3 N/mm^2 after 7 days approx. 5 N/mm^2 after 28 days approx. 8.5 N/mm^2
Fire behaviour (DIN EN 13501-1):	fire classification $A2_{fl}$ - S1
Suitable for wheelchairs:	yes
Suitable for subfloor heating systems:	
a) Water-bearing	yes
b) Electrical	no
pH:	after 1 day approx. 11
EMICODE:	EC1R PLUS
Classification according GHS/CLP:	no
Classification according GGVSEB/ADR:	no
Packaging:	25 kg net bags
Storage:	can be stored in dry rooms for approx. 6 months in the original sealed container

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