

## Technical Datasheet

### PANDOMO Wall White

#### Decorative finishing render

- › For creating and designing the surfaces of walls and ceilings in internal areas
- › Cement/Polymer based
- › Hardens and dries rapidly to a stress-free layer without cracks in all thicknesses
- › Easy to apply
- › Excellent adhesion
- › High yield



#### Use

Installation of illustrative finishes characterised by a creative design, such as surfaces in exhibition rooms, foyers, public buildings, sales premises and in private residences.

#### Description

White powder made of special cement, flexible polymer additives and selected fillers.

The powder is mixed with water to give a supple mortar which can be applied as a finishing compound in both thin and thick layers and is workable approx. 30 minutes.

The hardened render is inert, virtually tension free and vapour permeable.

PANDOMO® W1 does not promote corrosion.

#### Substrate preparation, walls

##### Suitable substrates

- › concrete
- › cement and lime plaster
- › gypsum plaster and gypsum wall boards
- › masonry
- › gypsum plasterboards
- › gypsum fibre boards
- › tiles and stone slabs
- › colourfast dispersion coatings
- › old latex paints
- › acrylic paints
- › enamel coatings
- › alkyd resin coatings
- › glass fibre hangings, painted

Must be dry, solid, stable as well as free of dust, dirt and other barrier materials. Remove old, weakly adhered residues or coatings, loose plaster/render and wall papers.

Acrylic enamel coatings, alkyd resin coatings as well as tiles and stone slabs have to be pre-filled with a thin layer of PANDOMO® W1. For masonry and all surfaces with mixed backgrounds, apply a coat of PANDOMO® Primer, diluted 1:2 with water or ARDEX P 4 multipurpose primer undiluted, to avoid colour tone differences.

The surfaces must be primed with ARDEX P4 to achieve a uniform structure.

open your space



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### Application

Potable water is put into a clean mixing container and whilst stirring vigorously powder is mixed in to give a supple, lump-free mortar.

Approximately 2.5 l of water are needed to mix 5 kg of PANDOMO® W1 2.0 powder.

After a maturing period of 1– 3 minutes and repeated stirring, the mortar can be applied at temperatures between 18–20°C within approx. 30 minutes.

Small holes and minor, stable cracks can be filled using Pandomo® W1. When preparing two-dimensional areas with finishing render, the first preparation layer should be tinted to adapt to the required colour tone, up to a nominal layer thickness of 2 mm.

When trowelling the surface to produce decorative effects the minimum thickness should be 1 mm.

### Pigmenting the finishing compounds

The 10 PANDOMO® CC colour concentrates from the PANDOMO® system can be mixed into the fresh mortar or added to the mixing water. For large areas, the mixing water should be coloured to avoid daywork joints between applications.

The different colour formulations can be seen from the PANDOMO® W1 colour tables and must be followed exactly. The system also allows one to create individual colour tones.

The details given in the colour table are only for your guidance, and can vary depending on the substructure, layer thickness and ambient conditions.

To allow for exact dosing of the PANDOMO® CC colour concentrates, a weighing scale is required (accurate to a gram).

### PANDOMO® Wall – Designing smooth wall and ceiling surfaces:

The follow-up treatment can start approx. 60 minutes after-render application; at temperatures between 18 and 20°C. Time can vary depending on the temperatures on site. Use a moist sponge to dampen the surface, and venetian smoothing blade to finish the surface.

Having allowed the render to dry (about 5 hours), the surface must be polished with a suitable eccentric grinder (e.g. Rotex from Festo) using a grinding disc with an abrasive grain size of

120. As an alternative grinding pads of messrs. Mirka 180 grid Abranet and 4000 grid Abralon can be used. We recommend to carry out a simple impregnation (bringing about a colour intensification) using PANDOMO® SL stone oil – see technical leaflet.

### PANDOMO® Wall-Unique – Designing structured wall and ceiling surfaces:

PANDOMO® W1 can be designed using normal structuring tools within the processing time (30 minutes).

After a suitable drying period the surface is also polished and impregnated with PANDOMO® SL Stone oil.

### Note

The maximum addition rate of the PANDOMO® colour concentrates can be seen from the colour charts.

It is strongly recommended to prepare the substrate thoroughly before beginning the creative wall design. In addition a sufficiently large trial area should be completed for approval by the client.

Creative wall designs in residential bathrooms and lavatories can be carried out with PANDOMO® W1. It is not recommended for use within range of direct splashing or running water in the proximity of showers.

There is no problem to reapply PANDOMO® W1 directly over impregnated PANDOMO® W1 areas during subsequent renovation works.

Product contains cement. Causes an alkaline reaction requiring protection of the skin and the eyes. If product comes into contact with the skin and the eyes, thoroughly rinse with water. In case of contact with the eyes, seek medical help.

Once hardened, the material is inert and non-hazardous.



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#### Technical Specifications According to ARDEX Quality Standards:

Mixing ratio	approx. 2.5 l water : 5 kg powder equivalent to approx. 1 vol. of water : 1.8 vol. of powder
Bulk density	approx. 0.9 kg/ l
Fresh motar weight	approx. 1.4 kg/l
Material requirement	approx. 1.0 kg – 1.5 kg per m <sup>2</sup> per designed surface on a plane substrate.
Working Time*	approx. 30 min.

\* These are approximate values calculated in laboratory conditions at +20°C temperature and 65% relative humidity. Environmental and atmospheric conditions may alter these values. High temperatures and lower relative humidity shorten these durations, while lower temperatures and higher relative humidity extend them.

#### Mechanical properties

Compressive strength	Time	Approx. Compressive Strength
	After 1 day	4.5 N/mm <sup>2</sup>
	After 7 days	8.0 N/mm <sup>2</sup>
	After 28 days	13.0 N/mm <sup>2</sup>
Tensile bending strength	Time	Approx. Bending Strength
	After 1 day	1.5 N/mm <sup>2</sup>
	After 7 days	3.0 N/mm <sup>2</sup>
	After 28 days	5.0 N/mm <sup>2</sup>

#### Product details

Water vapour diffusion coefficient $\mu$ according to DIN 53122 (whole system):	approx. 210
EMICODE:	EC 1 <sup>PLUS</sup>
GHS/CLP classification	none
GGVSEV/ADR classification	none
Packaging	5 kg bags supplied in packs of 4
Storage and Shelf Life	can be stored for approx. 6 months in dry rooms