

## Technical Datasheet

# PANDOMO Terrazzo Basic White

## TerrazzoBasic Binder Matrix, White

- › Virtually no shrinkage and very low tension during hardening and drying
- › Walkable after just 12 hours
- › Grindable after 36 – 48 hours depending on temperature
- › For a decorative and sturdy indoor and outdoor flooring.
- › Thermal insulation boards can be used on top of separation underlays and directly on concrete screed.



## Uses

A hydraulic binder that dries rapidly, gains strength, and is walkable for the manufacture of mineral and cement-based decorative floor coverings.

Depending on the condition of the substrate, it can be applied directly to the insulation and separation underlay either bonded or floating.

For floor screed applications, the criteria in the standards DIN 18353 and EN13813 for floor screed products apply. Consideration should be given to the rapid drying and gaining of strength of the product during application.

Used indoors and outdoors.

In cases where there is underfloor heating:

If there is an underfloor heating system installed, the normal drying times and waiting period for the final floor covering are significantly reduced. Three days after applying TerrazzoBasic, the heating system is activated with water at 25°C. The system runs at this temperature for three days. After three days, the water temperature is increased by 2°C each day until reaching the final service temperature.

Care should be taken to ensure that the floor does not exceed 32°C in temperature.

## Application

Suitable screed mixers or paddle mixers can be used to mix PANDOMO® BW. The mixing ratio for a 220-liter mixer is as follows:

50 kg of PANDOMO® BW, 250 kg (30-36 shovels) of 0-8mm sand, 12-22 liters of water (depending on the moisture of the sand).

To extend the working time, the following steps should be taken: first, 50% of the sand and aggregate are poured into the mixer. Then, 90% of the required water is added, followed by the remaining sand, aggregate, and water in sequence.

The working time of PANDOMO® BW is approximately 45 minutes, but it can vary depending on environmental and air temperature, mixing method, and the quality of added pigments.

Especially when applying to large areas, the 45-minute working time should be taken into account. For instance, if the application area is large, it should be divided into smaller sections to ensure proper application.

After application, to prevent early drying, the entire surface should be completely covered with PE plastic film.

Mixing, transportation, pouring, leveling, and if necessary, polishing should be done consecutively without interruption. The amount to be applied should be calculated beforehand, and the mortar should be prepared in an amount that can be worked with during the working time. High temperatures reduce the working time. Application should not be done at temperatures below 5°C.

The substrate should be dry, solid, and free from separating layers. If the application is to be done on a cement screed

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or concrete floor, PANDOMO® BW is mixed with sand at a 1:1 ratio as a dry mix. Then, it is mixed with E75 thinned with water at a 1:1 ratio to create a mortar slurry. The obtained slurry is applied to the substrate with a brush just before the application of TerrazzoBasic without waiting for it to dry, using the wet-on-wet method. In case of any contradictions, it is advisable to conduct a sample application or consult the ARDEX Technical team.

### Recommendations

The surface will be ready for walking approximately within 12 hours.

The sand and/or aggregate to be mixed with the binder should be 0-8mm in size.

The amount of water to be mixed with the mortar should be adjusted according to the moisture or wetness of the sand but should not exceed 24 liters per bag under any circumstances.

No additives such as oil or other screed or concrete additives should be used in the mixture.

It should not be mixed with other cements.

### To Be Considered

The substrate surface must be hard, dry, solid, and free from dust, grease, slurry residues, etc. It should not contain weak areas such as anti-adhesion paint, lime, mortar, plaster, and adhesive residues. The substrate must have a compressive strength of at least 35 N/mm<sup>2</sup> and an adhesion strength of more than 2 N/mm<sup>2</sup>. All concrete surfaces must have completed a minimum curing period of 6 weeks. The moisture level of the substrate screed must definitely not exceed 2% by mass.

The substrate screed must be poured according to building physics rules, and joints must be properly cut. Joints must be left between all load-bearing wall-column axes. Joints in the substrate must be transferred to the top surface. If suitable joints are not present, discussions with the employer should be held to open joints where needed.

panDOMO BW surfaces are suitable for pedestrian traffic. Heavy plastic or steel wheels, dragging heavy metal equipment, spiked pallets, etc., can cause dents and grooves. ARDEX K 520 is not suitable for heavy production areas, industrial floors, or chemical areas requiring special solutions.

As with any flooring (wood, soft natural stone, marble, etc.), scratches and wear may occur due to the movement or transportation of furniture. Keeping the surface clean and protecting it from dust and other contaminants will also minimize scratches and wear due to pedestrian traffic.

This product is for use in interior and exterior dry surfaces. Continuous water exposure or permanent surface moisture severely jeopardizes the coating's performance. This product is not a moisture barrier and allows moisture passage. If surface moisture exceeds the permissible maximum, it is recommended to apply a moisture barrier such as ARDEX PU 30, considering the warnings in its technical data sheet.

PANDOMO® BW becomes walkable after approximately 12 hours and ready for sanding in 36-48 hours.

In the application of residential floor screeds over thermal insulation boards subjected to a uniformly distributed moving load of 2 kN/m<sup>2</sup>, the screed thickness should be at least 50 mm.

Due to possible variations in the quality of locally sourced screed sand and aggregates added to the product, changes in visual, color, and workability properties may occur.

PANDOMO® BW can be sanded wet or dry within 36-48 hours using a 3 or 4-disc diamond sanding machine.

Care must be taken not to damage the TerrazzoBasic floor with an excessively heavy sanding or polishing machine. Voids and pores formed on the surface after coarse sanding are filled with the binder itself or PANDOMO® TFW before fine sanding, and the surface is lightly moistened with water immediately afterward. The entire surface is then covered with PE nylon without delay.

The TerrazzoBasic floor surface can be fine sanded approximately 16 hours after filling the pores.

No additives such as glass water, fluat, etc., should be added to TerrazzoBasic for strengthening.

After sanding, a polish application is required for surface protection. For indoor applications, a semi-gloss panDOMO SP-GS should be applied after the panDOMO SP-PS primer.

For outdoor applications, Lithofin Fleckstop MN primer should be applied, followed by at least 3 coats of Seirepox Probitano R Antirayado or Seirepox Probitano W Transparente, depending on the preference for a glossy or matte finish.

In outdoor applications, the surface should be protected against chemicals with a pH level less than 7. Likewise, the pH level of chemicals used for daily and periodic cleaning should be less than 7.

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### Precautions

Contains cement. Causes skin and eye irritation upon contact. Should not be allowed to come into contact with children's hands. Protective goggles and gloves should be worn.

Care should be taken to avoid contact with eyes, skin, and clothing.

IN CASE OF EYE CONTACT: Rinse with plenty of clean water

for at least 1 minute. If wearing contact lenses, remove them and rinse again. If irritation persists, seek medical attention.

Should be stored in a dry environment, and packaging should be disposed of according to local, national, and international regulations.

GISCODE ZP 1 = product containing cement, relatively low in chromates

### Technical Specifications According to ARDEX Quality Standards:

Mixing ratio	Consistency	Component A	Component B	Component C
	Mixing ratio of 1:5	25 kg PANDOMO® BW Powder	125 kg 0-8 mm sand	6 – 11 liters of water (depending on the moisture of the sand)

Bulk density approx. 1.1 kg/l

Fresh motar weight approx. 2.1 kg/l

Material requirement approx. 3,3 kg powder/m<sup>2</sup>-cm

Working Time\* approx. 60 minutes

Walkability\* approx. 12 hours

\* 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	Consistency	Time	Approx. Compressive Strength
	Mixing ratio of 1:5	After 1 day	20 N/mm <sup>2</sup>
	Mixing ratio of 1:5	After 7 days	35 N/mm <sup>2</sup>
	Mixing ratio of 1:5	After 28 days	45 N/mm <sup>2</sup>
Flexural strength	Consistency	Time	Approx. Flexural Strength
	Mixing ratio of 1:5	After 1 day	3,0 N/mm <sup>2</sup>
	Mixing ratio of 1:5	After 7 days	4,5 N/mm <sup>2</sup>
	Mixing ratio of 1:5	After 28 days	5,5 N/mm <sup>2</sup>

### Product details

Suitable to underfloor heating Yes

EMICODE: EC 1<sup>PLUS</sup>

GHS/CLP classification GHS 05, Corrosive  
Hazard statement: Dangerous

GGVSEV/ADR classification None

Packaging Bags of 25 kg net weight

Storage and Shelf Life Can be stored for approx. 12 months in sealed, original containers in dry surroundings

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<b>ARDEX Yapı Malzemeleri Ltd. Şti.</b> İstanbul Deri Organize Sanayi Bölgesi Desen Sok. No:14/A C1 Özel Parsel P.K. 34956 Tuzla / İstanbul / Türkiye	
<b>24</b>	
40081 EN 13813:2002	
<b>40081 panDOMO BG Screed Mix</b> <b>EN 13813:CT-C40-F5-A12</b>	
Cementitious screed for internal and external use	
based on panDOMO BW mixed 1:5 with screed sand 0-8 mm (A8-C8 according to DIN 1045) and a water-to-cement-ratio of 0.45. Any change of one of these factors makes the CE-sign inapplicable.	
Reaction to fire	: A1 <sub>fl</sub>
Release of corrosive substances	: CT
Water permeability	: NPD
Water vapour permeability	: NPD
Compressive strength	: C40
Flexural strength	: F5
Wear resistance according to Böhme	: A12
Sound insulation	: NPD
Sound absorption	: NPD
Thermal resistance	: NPD
Chemical resistance	: NPD

ARDEX Yapı Malzemeleri Limited Şirketi  
İstanbul Deri Organize Sanayi Bölgesi  
Desen Sok. No:14/A C1 Özel Parsel  
Tuzla / İstanbul / Türkiye

Tel.: +90 (0) 216 394 0114  
Fax: +90 (0) 216 394 0377  
info@ardex.com.tr  
www.ardex.com.tr

Manufacturer with ISO 9001/14001 Quality  
Management System Certificate.