

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 decorative indoor spaces and sturdy 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.

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

open your space



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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 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

PANDOMO® BW is ready for walking approximately 12 hours after application and ready for sanding within 36-48 hours.

In the case of residential floor screed applications where the screed will be subjected to evenly distributed moving loads of 2kN/m² on thermal insulation boards, the screed thickness should be at least 50 mm.

Due to potential variations in the quality of locally sourced screed sand and aggregates added to the product, there may be changes in visual appearance, color, and processing characteristics of the screed.

PANDOMO® BW can be polished with a 3 and/or 4-disc diamond sanding machine, wet or dry, within 36-48 hours.

Care should be taken to ensure that overly heavy sanding or polishing machines do not damage the TerrazzoBasic floor. After coarse sanding, any voids and pores on the surface are filled with the binder itself or PANDOMO® TFW before light sanding, followed by lightly spraying the surface with water. After application, the entire surface should be covered with PE plastic film without delay.

Approximately 16 hours after filling the pores, fine sanding can be done on the TerrazzoBasic floor.

No additives such as glass water or fluat should be added to TerrazzoBasic for reinforcement purposes.

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



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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 ² -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 ²
	Mixing ratio of 1:5	After 7 days	35 N/mm ²
	Mixing ratio of 1:5	After 28 days	45 N/mm ²
Flexural strength	Consistency	Time	Approx. Flexural Strength
	Mixing ratio of 1:5	After 1 day	3,0 N/mm ²
	Mixing ratio of 1:5	After 7 days	4,5 N/mm ²
	Mixing ratio of 1:5	After 28 days	5,5 N/mm ²

Product details

Suitable to underfloor heating	Yes
EMICODE:	EC 1 ^{PLUS}
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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24	
40081 EN 13813:2002	
40081 panDOMO BW Screed Mix EN 13813:CT-C40-F5-A12	
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	: A ₁ _{fl}
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

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Manufacturer with ISO 9001/14001 Quality
Management System Certificate.