

BETONART

DECORATIVE FLOORING WITH CONCRETE
EFFECT, LOW THICKNESS (3-4 mm)
AND HIGH MECHANICAL RESISTANCE



DESCRIPTION

BETON ART is a two-component product composed of a mixture of cements, additives, and quartz with a modified grain size curve with high-quality polymers in aqueous dispersion.

FIELDS OF USE

BETON ART is used to create decorative flooring with a cloudy concrete effect and high mechanical performance while maintaining a low thickness (from 2 to 4 mm). It can be applied to new flooring on concrete, screeds, etc., as well as overlaid on old ceramic or marble floors. It can be used for decorative flooring in:

- Shops and showrooms;
- Private and residential construction;
- Wellness centers;
- Laboratories;
- Bars and restaurants;

PACKAGING

KIT (inside a bucket):

BETON ART Comp. A: 15 kg bag

BETON ART Comp. B: 2.5 kg can

BETON ART FINISH: 60 g jar

or

BETON ART Comp. A: 21 kg bag

BETON ART Comp. A: 3.5 kg drum

BETON ART FINISH: 84 g jar

CONSUMPTION

From 7 to 9 kg/m² for a thickness of 3 mm

MIXING RATIO

Comp. A + B = 15 + 2.5 kg

CHARACTERISTICS AND BENEFITS

- Can be applied indoors and outdoors;
- High mechanical resistance.

CERTIFICATIONS

BETON ART complies with standard EN 13813: screeds and screed materials (DoP no. 234).
ISO 9001 certified quality management system
(Certificate no. IT.17.0227.01.QMS).
APSE S.r.l. is an active member of CONPAVIPER.



PREPARATION OF THE SUBSTRATE

Surfaces must be flat, clean, free of dust, oil, grease, mud, loose particles, paint, and anything else that could interfere with adhesion.

The substrate must have a compressive strength of at least 25 N/mm² and a pull-off strength of at least 1.0 N/mm², with a residual moisture content not exceeding 5%.

Surfaces must be adequately roughened using suitable mechanical equipment depending on the type of substrate and must be properly cleaned and dusted. Depending on the condition of the surface, specific operations must be carried out before installing the BETON ART system:

Cementitious substrate

Sand or shot-blast the surface.

Level with APSEPRIMER NS 125 and then dust with 1.2-1.8 mm quartz. Once dry, remove excess quartz and remove dust.

Non-absorbent surfaces (ceramic, marble, etc.)

Sand the surface with a diamond disc.

Lay fiberglass mesh and level the surfaces with APSEPRIMER NS 125, mixed with 20% 0.1-0.5 quartz, then dust with 1.2-1.8 mm quartz. Once dry, remove excess quartz, sand, and dust. For very wide joints, an additional coat of APSEPRIMER NS 125 mixed with 20% 0.1-0.5 quartz may be necessary, followed by dusting with 1.2-1.8 mm quartz.

Surfaces affected by rising damp.

Sand or shot blast depending on the type of substrate. Apply UMIFOND AUTOLIVELLANTE 3.9. in one or two coats depending on the condition of the substrate.

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PRODUCT PREPARATION

Pour approximately 90% of component B (liquid) into a clean bucket, then pour in component A (powder) and mix with a double whisk mixer for 1-2 minutes. Add the remaining component B (approximately 10%) and continue mixing until the mixture is smooth and lump-free.

APPLICATION OF THE MIXTURE

On a substrate prepared as described in the chapter "PREPARATION OF THE SUBSTRATE," apply the product with a metal trowel at a rate of approximately 7-9 kg/m² for a thickness of 3 mm. Use level guides to help you apply the desired thickness.

TROWELING

Start the first pass with a trowel machine (diameter 60-75-90 cm) only when the mixture appears compact and moist but does not leave marks when touched. The aggregate should not move when touched. The interval between passes will be longer at lower temperatures and higher humidity, and shorter in the opposite conditions. The first two passes are made with the disc, the subsequent ones with the trowels, which will gradually be used at a greater angle. Six to seven passes with the trowels are necessary to completely close the surface.

If you stop the process after the first few passes, the surface will remain rough and suitable for outdoor use. With subsequent passes, it will acquire its characteristic smooth, closed, and cloudy texture.

The perimeter strips along the walls must be finished by hand after passing with the trowel. During the passes with the trowel, the wall must always be kept on the left. Usually, 3 hand finishes on the perimeter strips are sufficient: the first after the first pass with the disc, the second after the first pass with the trowels, and the third after one of the last passes when the surface begins to close and acquire a cloudy appearance. Just before performing the last pass with the trowel, BETON ART FINISH, diluted 1:4 with clean water, must be sprayed onto the surface.

FINISHING

For indoor use, apply HYBRID n-COAT transparent, followed by a coat of ACQUAPOL TR.

For outdoor use, use METALCRIL 12J.

Wait at least 24-28 hours before applying transparent finishes.

CURING

For curing times (at +20°C), refer to the table below:

| | |
|-----------------------------------|-------------|
| Pot life | 30 min |
| Floating and smoothing | 1-2 hours |
| Application of protective coating | 36-48 hours |
| Complete curing | 28 days |

CLEANING OF TOOLS

Clean with water while the product is still fresh. Clean mechanically after hardening.

WARNINGS

Do not use if the packaging is damaged.

Do not add additives unless specified by the manufacturer.

Do not add water once the product has started to set. Use studded slippers to walk on the fresh floor during the second levelling and during the first passes with the trowel.

For the finishing phase, wear smooth slippers.

Keep tools clean during processing. In particular, the helicopter blades must be cleaned after each pass.

HEALTH AND SAFETY WARNINGS

For information on safety regulations, hazard warnings, and safety advice, refer to the latest safety data sheet, which can be requested at: ufficiotecnico@apsebg.it.

STORAGE

Shelf life of 12 months if stored in the original packaging in a dry place free from moisture.

Store at temperatures between +5°C and +35°C.

DISPOSAL

Dispose of the contents and/or container in accordance with local regulations.

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PRODUCT TECHNICAL DATA

PHYSICAL CHARACTERISTICS (at +20°C)

| CHARACTERISTICS | STANDARD | RESULT |
|----------------------------|-----------|-----------------------------|
| Appearance | - | Fine powder |
| Consistency of the mixture | - | Dense |
| Color of the mixture | - | Gray |
| Density of the mixture | EN 1015-6 | 1,8 ± 0,5 g/cm ³ |

PRODUCT PERFORMANCE IN ACCORDANCE WITH UNI EN 1504-3

| CHARACTERISTICS | STANDARD | RESULT |
|-----------------------|------------|---|
| Compressive strength | EN 12190 | ≥ 70 N/mm ² |
| Flexural strength | EN 12190 | ≥ 10 N/mm ² |
| Adhesion strength | EN 1542 | ≥ 1,5 N/mm ² |
| Böhme wear resistance | EN 13892-3 | ≤ 9 cm ³ / 50cm ² |
| Reaction to fire | EN 13501-1 | F _{fl} |

The above data are information obtained based on our best technical knowledge, application, and research experience. However, since we are unable to intervene directly in site conditions and work execution, they represent general indications that do not bind APSE S.r.l. in any way. - V&V Group. The information given does not relieve the purchaser of his responsibility to personally test our products as to their suitability with regard to their intended use. The customer is also responsible for verifying that this data sheet is valid for the batch of product of interest to him and is not outdated as superseded by later editions. If in doubt, contact our Technical Department in advance. APSE S.r.l. - V&V Group reserves the right to make technical changes of any kind without prior notice. This revision cancels and supersedes all previous ones, all under the continuous verification of data according to the new current Standards and our ISO 9001 management system. Please feel free to check the most up-to-date version of this Data Sheet on our website: www.apse.it

