



Technical application instructions

BIOLITH

STONE-BORN. BIO-DRIVEN.

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Opificio Ceramico Srl
Cap.Soc. i.v. 62.500 - N. REA 421093
Reg. Imp. MO C.F. 03827700364
P. IVA/VAT N. IT-03827700364
Codice univoco T04ZHR3

Composition of the BIOLITH kit

A BIOLITH kit consists of:

- **A. Natural clay blend**
- **B. Binder** based on plant-derived resins (in a bottle)
- **C. Liquid surface protective treatment** (to be applied in two coats)

Indicative consumption

- Standard BIOLITH application: 1.8 kg of clay per m²
- BIOLITH + REPETIT application: 1.6 kg of clay per m²

Mixing ratio

- **Clay : Binder** = 4 : 1 (by weight)

Environmental conditions for application

- Ambient and substrate temperature between **16 °C and 32 °C**
- Substrate dry, stable, clean, and free of dust or contaminants
- Avoid drafts and direct sunlight during application and drying



Technical application instructions
on a continuous substrate.

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Required equipment

- A. Trowel of approximately **600 g**



- B. Putty knife (American type) 20x8 cm



- C.
D. 5 cm putty knife



- E. Painter's brush with soft bristles, 3 × 7 cm, for applying the protective treatment



F. Electric mixer with low speed setting



G. Manual water sprayer

H. Carta abrasiva grana **120**

I. 'Giraffe'-type sander (if you wish to speed up the process)



J. Air compressor for blowing (if available)

K. Sponge (if the compressor is not available)

Preparation of the mixture

1. Shake and mix the binder with a low-speed electric mixer (E) for at least 60 seconds.
2. Pour the binder into a bucket and gradually add the clay while continuing to mix.
3. Mix for at least 2 minutes until you obtain a soft, homogeneous, plastic mixture free of lumps.
4. If the mixture is too “stiff” due to temperature and humidity, add clean water until the optimal soft consistency is reached.

Application procedure

1. Apply the mixture using the American spatula (B), assisted with the putty knife (C).
 2. Spread the material with small upward strokes.
 3. Keep the spatula slightly angled to avoid an overly uniform effect and to enhance a textured finish.
 4. Complete the entire surface without interruptions, avoiding stopping midway on the wall.
 5. Let the material rest for about 15 minutes.
 6. Mist the surface with clean water (F) and go over it again with the American spatula held at a flatter angle.
- At this stage, the final aesthetic is defined by alternating more compact areas with more textured ones.
 - Any sparse areas can be filled by adding additional material.
7. Allow to dry for 6–12 hours, depending on environmental conditions.
 8. Sand the entire surface with 120-grit paper (G) using a giraffe-type sander (H).
 9. Remove dust by blowing with compressed air (I).
 10. Wash the surface with a sponge (J) and clean water, changing the water frequently.
 11. Once fully dry, apply the protective treatment with a brush (D) in a first even coat. Dip only the tip of the bristles to avoid creating air bubbles. In such a case, pass a dry brush over the entire surface immediately to remove bubbles. If not removed promptly, air bubbles—especially on dark BIOLITH colors—may create white “halos.”
 12. After complete drying, apply a second coat of protective treatment, repeating the procedure described in step 11.



**Technical application instructions
for continuation of a wall
installed with Repetit.**

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(Patent Pending n. 102025000023464)

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Required equipment

- A. Trowel of approximately **600 g**



- B. Rubber spatula



- C. Float



- D. Painter's brush with soft bristles, 3×7 cm, for applying the protective treatment



E. Electric mixer with low speed setting



F. Manual water sprayer

G. Carta abrasiva grana **120**

H. 'Giraffe'-type sander (if you wish to speed up the process)



I. Air compressor for blowing (if available)

J. Sponge (if the compressor is not available)

Preparation of the substrate

1. Glue REPETIT onto a perfectly flat and leveled substrate.
2. Use adhesive suitable for porcelain stoneware.
3. Ensure that the tiles are laid following the orientation indicated on the boxes.
4. For optimal results, it is recommended to lay the tiles edge to edge without using spacers. It is also possible to use spacers provided by Opificio Ceramico; in this case, consult the company in advance for supply and usage instructions.
5. Allow the adhesive to dry completely.
6. Proceed with grouting, completing one wall at a time.

Preparation of the mixture

1. Shake and mix the binder with a low-speed electric mixer (E) for at least 60 seconds.
2. Pour the binder into a bucket and gradually add the clay while continuing to mix.
3. Mix for at least 2 minutes until you obtain a soft, homogeneous, plastic mixture free of lumps.
4. If the mixture is too “stiff” due to temperature and humidity, add clean water until the optimal soft consistency is reached.

Application procedure

1. Prepare the mixture following the instructions in paragraph 4.
2. Apply BIOLITH using a rubber spatula (L), assisted with a float (M) kept constantly moistened.
3. Compact the material well by applying even pressure.
4. Work with upward strokes:
 - Angle the spatula to achieve light ripples
 - Hold the spatula flatter for smoother, denser surfaces
5. Customize the finish according to the desired aesthetic, taking care to clean the float only on the tips of the grains without removing the mixture from the base of the tile.

6. Allow to dry for 6–12 hours, depending on environmental conditions.
7. Sand with a giraffe-type sander (H) to remove clay residues from the REPETIT reliefs.
8. Remove dust by blowing with compressed air (I).
9. Wash the surface with a sponge (J) and clean water, changing the water frequently.
10. Once fully dry, apply the protective treatment with a brush (D) in a first even coat. Dip only the tip of the bristles to avoid creating air bubbles. In such a case, pass a dry brush over the entire surface immediately to remove any bubbles. If not removed promptly, bubbles—especially on dark BIOLITH colors—may create white “halos.”
11. After complete drying, apply a second coat of protective treatment, repeating the procedure described in step 10.

Final notes

- BIOLITH finishes are artisanal and non-reproducible; any variations in texture and color are an inherent part of the product.
- Any samples should be considered indicative.
- It is recommended to carry out a preliminary test application before the final installation