

## DECORATIVES

## DECORKRETE

*Decorative micro-cement coating for walls and floorings, to be applied indoor and outdoor*

Powder-based micro-cement coating to be used as a finish and as a smoother, with special powder resins and innovative additive that enable high workability and a great aesthetic effect. The product has a very good weather resistance, excellent filling power and it can be used outdoor and indoor. It ensures perfectly smooth coatings, without cracks and modern looking. The quick and easy application allows to create customized effects on the surface.

## BENEFITS

- Jointless surface.
- Excellent filling power.
- Good resistance to wear.
- Creates aesthetic effects like “cloud effect” or “spatula effect”
- Easy to clean.
- Anti-crack
- Resistant to high and low temperatures.
- Highly resistant to weathering agents and UV rays.
- Easy application.

## YIELD

1,5 kg/m<sup>2</sup> (0,31 lb/ft<sup>2</sup>) to obtain a total thickness of 2 mm (0.08 in).

1 gallon U.S. covers about 35.45 – 44.32 ft<sup>2</sup> for about 0.08 inch of thickness (2 layers of application).

## COLOUR

See product brochure.

## PACKAGING

10,0 kg (22,1 lb) and 0,2 kg toner (0,45 kg) in plastic buckets.

Pallet: - 48 buckets (480 kg / 1058 lb) + 48 toner packs (9,6 kg / 21,2 lb)

## APPLICATION FIELDS

The product is suitable to decorate floors and walls. Thanks to its filling power it can smooth small imperfections of the support (holes and

cracks). For unevenness of greater dimensions, it will be necessary to use self-leveling resins specific for the regularization of the support. *Decorkrete* can be applied on concrete supports, tiles and mosaics. The product is suitable for indoor and outdoor use, as well as on horizontal and vertical surfaces.

## STORAGE

Store the product in well-ventilated areas, away from sunlight, water and ice, at temperatures between +5°C (+41°F) and +35°C (+95°F). Storage time: 18 months.

## PREPARATION OF THE SUPPORT

To obtain the chosen aesthetic effect, it is very important to accurately prepare the substrate, that must be non-absorbent and perfectly levelled. Support must be completely hardened and resistant enough. The surface must be carefully clean, dry, well consolidated and without debris or detaching parts. If the surface is not solid, remove the detaching parts with polishing or milling machine. Potential damages should be restored before the application of the product with suitable cement mortar. Before the application of the product, it is also recommended to cover any element that will not be coated.



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### Plaster from the *Diathonite* line or new plasters

Ensure that the plaster is well levelled so that the surface remains as little rough as possible; Shave the surface with the lime-based product called *Argatherm* and then apply the specific fixative *D20* (see data sheet).

### Old plaster

Ensure that the plaster is consistent and well adhered to the substrate; if not, consider partial or total removal and redoing it.

In the case of painted plasters, given the wide variety of paints on the market, it is advisable to perform an adhesion test to verify suitability for application or the need to use a primer. On smooth, cracked and micro-cracked substrates, apply white-colored *Color Primer*.

On non-cracked but dusty substrates, proceed with the application of *D20*. On dusty, smooth and cracked substrates, application of both products is recommended.

### Plasterboard

On plasterboard surfaces, make sure joints are grouted and sanded properly, and then apply *D20* fixative first, then *Color Primer* (see data sheets).

### Concrete

In the case of newly made cement foundation, it must be sufficiently seasoned. If there are cracks, holes or irregular areas, restore them with suitable cementitious mortar.

To treat reinforcing bars, apply suitable passivating agent. For better adhesion on smooth, non-wet concrete, the use of *Color Primer* is recommended (see data sheet).

On damp substrates and/or subject to rising damp, the use of *WATstop* is required (see data sheet). *WATstop* can also be used to fill small cracks or crazing.

### Wood

Thoroughly clean the surface by removing dust, brittle parts and flakes in the process of detachment. The wood should appear completely dry, well cohesive and dimensionally stable. Prime wood surfaces with *Color Primer* (see data sheet) before proceeding with the application of *Decorkrete*. Do not apply the product to boards, matchboards or substrates with a large number of joints. In this case, shaving with *Argatherm* product reinforced with *Polites 80* fiberglass reinforcement mesh is recommended.

### Metal

Thoroughly clean the surface by removing dirt and any loose paint. Before proceeding with the application of *Decorkrete*, prime metal surfaces with *Color Primer* (see data sheet). If there is rust, treat the surface with suitable rust inhibitors before applying *Color Primer*. If the metal surface is painted, it is recommended to perform a test to check the perfect adhesion of the system.

### Mosaics or tiled surfaces

Make sure that the mosaic or tiles are well anchored to the substrate and not damaged; if not, remove them and restore them with suitable cement mortar. The tiled surface should have no traces of detaching substances, such as grease, waxes, oils, chemicals, etc. Sand the surface beforehand with the aim of increasing the adhesion of the product to the substrate. After properly brushing the surface and removing all loose parts or any residual debris, apply *WATstop* product in two coats with an American spatula or short-haired roller.

### Treatment of joints

Any joints on the substrate (joints between concrete or other material panels, expansion joints, control or insulation joints) must be treated before applying *Decorkrete* with the

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polyurethane sealant *Diaseal Strong* (see technical data sheet).

## MIXING

- Pour 25 - 30% of water in a clean bucket for each packaging of *Decorkrete*. Add the colour and start mixing.
- Add the powder to the water a little at a time, and mix until obtaining a homogeneous mix, without lumps.
- Wait for 1 or 2 minutes and mix it again.
- Do not add powder after having done the mixture.
- Working time of mixture is 15 – 25 minutes with 18 – 20°C (64.4 - 68°F) and it may change depending on weather conditions: lower temperatures increase the working time, while higher temperatures lower it.
- If the mixture gets hard, mix it energetically for 20–30 seconds in order to have 5-10 minutes more of workability.

## APPLICATION

### WALL APPLICATION

In highly humid rooms where contact with water is expected.

1. In case of applications to saunas or shower stalls, when *Watstop* (applied in two layers) is completely dry, and no later than 48 hours after application, apply a first layer of *Decorkrete* with a stainless steel trowel with rounded edges.
2. When the first coat of *Decorkrete* is perfectly dry (6 hours at 23°C and 50% relative humidity), apply a second coat in the same way until the total yield indicated and a thickness of approximately 2 mm is reached.
3. Once the second coat is also dry, sand the surface with sandpaper of grit size 80-120. Sand horizontal surfaces with a single-brush sander for smoothing screeds, equipped with the following

accessories: disc holders for abrasive discs and two-sided silicon carbide abrasive discs.

4. Thoroughly remove residual dust with dry systems. On a completely clean surface, apply a layer of *D20* (see technical data sheet).
5. When *D20* is completely dry, apply *Aquafloor Eco* in two coats (see technical data sheet) to protect *Decorkrete*, increasing resistance to scratches and wear.

### On moist substrates

1. Once *Watstop* is completely dry (applied in two layers), and no later than 48 hours after application, apply a first layer of *Decorkrete* with a stainless steel trowel with rounded edges.
2. When the first coat of *Decorkrete* is perfectly dry (6 hours at 23°C and 50% relative humidity), apply a second coat in the same way until the total yield indicated and a thickness of approximately 2 mm is reached.
3. Once the second coat is also dry, sand the surface with sandpaper of grit size 80-120. Sand horizontal surfaces with a single-brush sander for smoothing screeds, equipped with the following accessories: disc holders for abrasive discs and two-sided silicon carbide abrasive discs.
4. Thoroughly remove residual dust with dry systems. On a completely clean surface, apply a layer of *D20* (see technical data sheet).
5. When *D20* is completely dry, apply *BKK Eco* (see technical data sheet) to protect *Decorkrete*.

### On dry, nonabsorbent substrates

1. Once *Color Primer*, and no later than 48 hours after application, apply a first coat of *Decorkrete* with a stainless steel trowel with rounded edges.



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2. When the first coat of *Decorkrete* is perfectly dry (6 hours at 23°C and 50% relative humidity), apply a second coat in the same way until the total yield indicated and a thickness of approximately 2 mm is reached.
3. Once the second coat is also dry, sand the surface with sandpaper of grit size 80-120. Sand horizontal surfaces with a single-brush sander for smoothing screeds, equipped with the following accessories: disc holders for abrasive discs and two-sided silicon carbide abrasive discs.
4. Thoroughly remove residual dust with dry systems. On a completely clean surface, apply a layer of *D20* (see technical data sheet).
5. When *D20* is completely dry, apply *BKK Eco* (see technical data sheet) to protect *Decorkrete*.
5. When *D20* is completely dry, apply *Aquafloor Eco* in two coats (see technical data sheet) to protect *Decorkrete*, increasing resistance to scratches and wear.

### APPLICATION – cloud effect

1. When *WATstop* is completely dry, and no later than 48 hours from the end of the application, proceed with a first coat of *Decorkrete* by means of a stainless-steel trowel with rounded edges, having care in creating a smooth surface.
2. Once the first coat of *Decorkrete* is completely dry (6 hours at +20°C / +68°F and 40% of relative humidity), apply a second layer until the specified yield and the thickness (2 mm) are reached. Note that 1 gallon U.S. covers about 35.45 – 44.32 ft<sup>2</sup> for about 0.08 inch of thickness.
3. When the second layer is starting to dry (20 – 30 mins) spray the water on the surface until saturation.
4. Move and distribute the water on the surface with the trowel to create the required effect. The higher the amount of water, the lighter the colour.
5. Let it dry perfectly.
6. To obtain smooth surfaces or to emphasize the “cloud effect”, rub down the surface by sandpaper with 80-120 grain size.
  - 6.1. Smooth a single rotating brush for sanding surfaces equipped with disc holder for abrasive discs & sanding discs; double face abrasive disc made of silicon carbide.
7. Carefully remove residual dust with dry systems. On a completely clean surface, apply a layer of *D20* (see data sheet).
8. At complete drying of the *D20*, apply *Aquafloor Eco* in two coats (see technical sheet data). The application of *Aquafloor Eco* highlights the “cloud effect”.

## FLOOR APPLICATION

### On dry, non-absorbent substrates

1. When *WATstop* is completely dry, and no later than 48 hours after application, apply a first coat of *Decorkrete* with a stainless steel trowel with rounded edges.
2. When the first coat of *Decorkrete* is perfectly dry (6 hours at 23°C and 50% relative humidity), apply a second coat in the same way until the total yield indicated and a thickness of approximately 2 mm is reached.
3. Once the second coat is also dry, sand the surface with sandpaper of grit size 80-120. Sand horizontal surfaces with a single-brush sander for smoothing screeds, equipped with the following accessories: disc holders for abrasive discs and two-sided silicon carbide abrasive discs.
4. Thoroughly remove residual dust with dry systems. On a completely clean surface, apply a layer of *D20* (see technical data sheet).



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### APPLICATION – stone effect

1. When *WATstop* is completely dry, and no later than 48 hours from the end of the application, proceed with semi-circular movements by applying a first coat of *Decorkrete* by means of a stainless-steel trowel with rounded corners, and having particular care in leaving in evidence the resulting crests (*stone effect*)
2. Once the first coat of *Decorkrete* is completely dry (6 hours at +20°C / +68°F and 40% of relative humidity), apply an as homogeneous and smooth second layer as possible, until the specified yield and thickness (2 mm) are reached. Note that 1 gallon U.S. covers about 35.45 – 44.32 ft<sup>2</sup> for about 0.08 inch of thickness.
3. Smooth the surface by sandpaper with 80-120 grain size when the product is completely dry.
4. For horizontal surfaces use single rotating brush for sanding surfaces equipped with disc holder for abrasive discs & sanding discs; double face abrasive disc made of silicon carbide.
5. Carefully remove residual dust with dry systems. On a completely clean surface, apply a layer of *D20* (see data sheet).
6. Once the product is completely dry, apply *Aquafloor Eco* in two coats (see technical data sheet). The application of *Aquafloor Eco* highlights the “*stone effect*”.

### DRYING TIME

At +20°C (+68°F) of temperature and 40% of relative humidity level, the product, if applied with 2 mm (0.08 in) thickness, is walkable after 4 – 5 hours and it completely dries in 24 hours.

- Drying time is influenced by relative humidity level and by temperature and may change significantly.
- If the product is to be applied with a higher yield, drying time can significantly increase.
- After the drying time, *Decorkrete* must be protected with a layer of *D20*, and eventually covered with two layers of *Aquafloor Eco* (see data sheets).

### SUGGESTIONS

- Do not apply at environmental and substrate temperatures lower than +5°C (+41°F) or higher than +30°C (+86°F).
- During summer season apply in the cooler hours of the day, away from sunlight.
- Do not apply with imminent threat of rainwater or ice, with strong fog or relative humidity level higher than 70%.
- To protect the product from heavy rain until completely dried.
- Before applying the product, it is recommended to cover any element that does not need to be coated.

### CLEANING

The equipment used can be washed with water before hardening of the product.

### SAFETY

Use personal protective equipment during handling and follow the product safety data sheet.

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\* The above data, even if carried out according to regulated tests are indicative and they may change when specific site conditions vary.

## Technical Data

Features		Units
Yield	1.5 kg/m <sup>2</sup> for 2 mm (0.08 in) of thickness 1 gallon U.S. covers about 35.45 – 44.32 ft <sup>2</sup>	kg/m <sup>2</sup>
Colour	See product brochure	-
Specific weight	1,3	kg/L
	10.85	lb/gal US
Weight of the wet product	1,7	Kg/L
	14.18	L/kg
Dilution	25 – 30%	Ore-
Waiting time between 1 <sup>st</sup> and 2 <sup>nd</sup> coat (T=23°C / +73,4°F; R.h. 50%)	5 - 6	hours
Application temperature	+5 / +35	°C
	+41 / +95	°F
Working time (T=23°C / +73,4°F; R.h. 50%)	40	minutes
Walkability (T=23°C / +73,4°F; R.h. 50%)	4 - 5	hours
Drying of the applied material (T=23°C / +73,4°F; R.h. 50%) thickness of 2 mm - 0.08 in	1	day
Storage	12 months in original container and in dry places	months
Packaging	10,0 kg (22,1 lb) and 0,2 kg toner (0,45 kg) in plastic buckets	kg

Final performances*		Unit	Regulation	Result
Compression strength after:				
1 day	1.58 N/mm <sup>2</sup> 229.16 lbf/in <sup>2</sup>	N/mm <sup>2</sup>	UNI EN 13813	-
7 days	8.97 N/mm <sup>2</sup> 1300.98 lbf/in <sup>2</sup>			C7
28 days	24.59 N/mm <sup>2</sup> 3599.48 lbf/in <sup>2</sup>			C20
Tensile strength after :				
1 day	0.10 N/mm <sup>2</sup> 14.50 lbf/in <sup>2</sup>	N/mm <sup>2</sup>	UNI EN 13813	-
7 days	2.66 N/mm <sup>2</sup> 385.80 lbf/in <sup>2</sup>			F2
28 days	6.35 N/mm <sup>2</sup>			F6



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	920.99 lbf/in <sup>2</sup>			
Abrasion resistance <i>Decorkrete</i> + <i>Aquaafloor Eco gloss type</i> Taber Wear Index (1000 rpm, CS-10 wheels)	181	-	ASTM D4060	-
Abrasion resistance <i>Decorkrete</i> + <i>Aquaafloor Eco matt type</i> Taber Wear Index (1000 rpm, CS-10 wheels)	73	-	ASTM D4060	-
Adhesion of <i>Aquaafloor Eco gloss type</i> on <i>Decorkrete</i>	1.00	MPa = N/mm <sup>2</sup>	EN ISO 4624	sufficient
	145.04	lbf/in <sup>2</sup>	-	-
Adhesion of <i>Aquaafloor Eco matt type</i> on <i>Decorkrete</i>	1.13	MPa = N/mm <sup>2</sup>	EN ISO 4624	good
	163.89	lbf/in <sup>2</sup>	-	-
Adhesion of <i>Grip Primer</i> + <i>Decorkrete</i> on tiles	1.00	MPa = N/mm <sup>2</sup>	EN ISO 4624	sufficient
	145.04	lbf/in <sup>2</sup>	-	-



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