

DECORATIVE

DECORKRETE

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

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 great aesthetic effect. The product has very good weather resistance, excellent filling power and it can be used outdoor and indoor. It creates perfectly smooth modern looking coatings without cracks. Its easy application allows the creation of superficial customized effects.

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.
- Easy application.

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-levelling products 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 on horizontal and vertical surfaces.

YIELD

1.2 – 1.5 kg/m² to obtain a total thickness of 2 mm.

COLOUR

See product brochure. The colours shown in the brochure are merely indicative.

PACKAGING

Each bucket contains the product and the toner, already dosed.

10.2kg or 20.4kg plastic buckets.

Pallet: - n°48 buckets, 10.2 kg each (tot. 489.6kg)
- n°22 buckets, 20.4 kg each (tot. 448.8 kg)

STORAGE

Store the product in original containers, in well ventilated areas, away from sunlight, water and frost, at temperatures between +5°C (+41°F) and +35°C (+95°F).

Storage time: 18 months.

PREPARATION OF SUPPORT

To obtain the chosen aesthetic effect, it is very important to accurately prepare the substrate, which must be non-absorbent and perfectly levelled.

The support must be completely hardened and resistant enough. The surface must be carefully clean, dry, well consolidated and without oils, greases, debris or detaching parts or other materials that may compromise the product adhesion.

If the surface is not solid, remove the detaching parts with polishing or milling machine.

Potential damages or lesions should be restored before the application of the product with suitable mortar.

Potential moisture on the support may compromise the adhesion of the applied products.

Mosaic or tiled surfaces

Make sure that the mosaic or the tiles are well bonded to the substrate and without damages: otherwise remove them and restore with a suitable cement mortar. The tiled surface must not have traces of detaching substances like greases, oils, chemical products etc.

Carefully clean the support and treat the surface with *Grip Primer* (see technical data sheet).

To fill joints between tiles and to create a perfectly levelled surface, apply the product *Vaposhield* (see technical data sheet). *Vaposhield* must be used even if the support is moist or characterized by rising damp.

According to the wide range of tiles that can be found on the market, it is recommended to realize a test in order to verify the perfect adhesion of the system.

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Technical Data

Features		Unit
Yield	1.2 – 1.5 kg/m ² for 2 mm of thickness	kg/m ²
Colour	See product brochure	-
Specific weight	1.3	kg/l
Weight of the wet product	1.7	kg/l
Dilution	25 – 30%	l/kg
Waiting time between 1 st and 2 nd coat (T=+23°C / +73.4°F; R.H. 50%)	6	hours
Application temperature	+5 /+35 +41/+95	°C °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 up to 2 mm	1	day
Storage	18	months
Packaging	10.2and 20.4 kg plastic buckets	kg

Final performances		Unit	Regulation	Result
Compression strength after 1 day 7 days 28 days	1.58 8.97 24.59	N/mm ²	EN 13813	- C7 C20
Tensile strength after 1 days 7 days 28 days	0.10 2.66 6.35	N/mm ²	EN 13813	- F2 F6
Abrasion resistance <i>Decorkrete + Aquafloor Eco</i> gloss type Taber Wear Index (1000 rpm, CS-10 wheels)	181	-	ASTM D4060	-
Abrasion resistance <i>Decorkrete + Aquafloor Eco</i> matt type Taber Wear Index (1000 rpm, CS-10 wheels)	73	-	ASTM D4060	-
Adhesion of the product <i>Aquafloor Eco</i> gloss type on <i>Decorkrete</i>	1.00	MPa = N/mm ²	EN ISO 4624	-
Adhesion of the product <i>Aquafloor Eco</i> matt type on <i>Decorkrete</i>	1.13	MPa = N/mm ²	EN ISO 4624	-
Adhesion of <i>Grip Primer + Decorkrete</i> on tiles	1.00	MPa = N/mm ²	EN ISO 4624	-

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

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Concrete

In case of new realised cement substrates, this must be sufficiently cured. In presence of lesions, holes or irregular areas, restore them with suitable cement mortar.

On extremely smooth substrates, scratch the surface, then carefully clean, and apply *Grip Primer* (see technical data sheet) as primer.

If the substrate is moist or affected by rising damp, use the product *Vaposhield* (see technical data sheet).

Vaposhield can also be used to fill small crevices or cracks and to level the surface.

Lightened screeds or other kind of screeds

In case of new realised cement substrates, this must be sufficiently cured. In presence of lesions, holes or irregular areas, restore them with suitable cement mortar.

On extremely smooth substrates, scratch the surface, then carefully clean, and apply *Grip Primer* (see technical data sheet) as primer.

When *Grip Primer* is completely dry, apply *Vaposhield* (see technical data sheet).

For supports not mentioned in this technical data sheet, please contact Diasen technical department.

MIXING

1. Pour 25 - 30% of clean water in a clean bucket for each packaging of Decorkrete. Add the colour (pre-dosed toner inside the packaging) and start mixing.
2. Add the powder gradually to the water by mixing until obtaining a homogeneous mixture, without clumps.
3. Wait for 1 or 2 minutes and mix again in the same way.
4. Do not add powder after having done the mixture.
5. Working time of the mixture is 15 – 25 minutes at 18 – 20°C (64.4°F - 68°F) and it may change according to the temperature: lower temperatures increase the working time, while higher temperatures decrease it.
6. In case of mixture hardening, energetically mix it for 20 – 30 seconds in order to have 5 – 10 minutes more of workability.

APPLICATION

1. Once *Vaposhield* is completely dry, apply a first coat of *Decorkrete* by stainless steel trowel with rounded edges.
2. When the first coat of *Decorkrete* is completely dry (6 hours at 23°C/73.4°F and 50% of relative humidity), apply a second one in the same way, until reaching the total specified yield and a thickness of about 2 mm. To obtain a better result and a more homogeneous covering, it is recommended to cross the coats.
3. When the second coat is completely dry, smooth the surface by sandpaper with 80-120 grain size. For horizontal surfaces, use single rotating brush for screed smoothing, equipped with the following disc holder for abrasive disc & sanding disc; double face abrasive disc made of silicon carbide.
4. Carefully remove the remaining dust with dry cleaning systems.
5. When the product is completely dry, apply *Aquafloor Eco* in two layers (see technical data sheet) for the protection of *Decorkrete*, increasing its resistance to scratches and wear.

APPLICATION – cloud effect

1. When *Vaposhield* primer is completely dry, apply a first coat of *Decorkrete* by stainless steel trowel with rounded edges.
2. Once the first coat of *Decorkrete* is completely dry (6 hours at 23°C/73.4°F and 50% relative humidity), apply a second one in the same way until reaching the total specified yield and a thickness of about 2 mm.
3. When the second coat starts to dry (20 – 30 minutes) spray water on the surface until saturation.
4. Put the water on the surface with trowel in order to create the required effect. Where there is more water, the product will have a lighter colour.
5. Let it dry perfectly.
6. To obtain smooth surfaces or to emphasize the “cloud effect”, smooth the surface by sandpaper with 80-120 grain size. For horizontal surfaces use single rotating brush for sanding surfaces equipped with disc holder for abrasive disc & sanding disc; double face abrasive disc made of silicon carbide.

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7. Perfectly remove the remaining dust with dry cleaning systems.
8. Once the product is completely dry, apply *Aquafloor Eco* in two coats (see technical sheet data). The application of *Aquafloor Eco* highlights the "cloud effect".

APPLICATION – spatula effect

1. When *Vaposhield* primer is completely dry, apply a first coat of *Decorkrete* by stainless steel trowel with rounded edges.
2. When the first coat of *Decorkrete* is completely dry (6 hours at 23°C / 73.4°F and 50% relative humidity), apply a second one with semicircular movements until reaching the total specified yield and a thickness of about 2 mm.
3. When the product is completely dry, smooth the surface by sandpaper with 80-120 grain size. For horizontal surfaces use single rotating brush for sanding surfaces equipped with disc holder for abrasive disc & sanding disc; double face abrasive disc made of silicon carbide.
4. Carefully remove the remaining dust with dry cleaning systems.
5. When the product is completely dry, apply *Aquafloor Eco* in two layers (see technical data sheet). The application of *Aquafloor Eco* highlights the "spatula effect".

DRYING TIME

At 23°C and 50% relative humidity, the product, if applied with a thickness of 2 mm, is walkable after 4 - 5 hours and it dries completely in about 24 hours.

- Drying time is influenced by environmental relative humidity and by temperature and it may significantly change.
- if applied in higher amount than the expected one, drying time may significantly increase.
- When *Decorkrete* is dry, it must be protected with the coating *Aquafloor Eco* (see technical data sheet).

SUGGESTIONS

- Do not apply at environmental temperature or at support temperature lower than +5°C (41°F) and higher than +35°C (95°F).
- During summer season, apply the product in the cooler hours of the day, away from sunlight
- Do not apply with imminent threat of rain or ice, in conditions of strong fog, or with relative humidity level higher than 70%.
- Protect the product from pouring rain until complete drying.
- Before the product application, it is recommended to cover each element that must not be coated.

CLEANING

Wash tools with water before the product hardening.

SAFETY

While handling, always use personal protective equipments and respect the instructions described in product safety data sheet.

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