

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/m² (0,31 lb/ft²) to obtain a total thickness of 2 mm (0.08 in).

1 gallon U.S. covers about 35.45 – 44.32 ft² 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.

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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.

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 concrete mortar. Clean the support and apply *Grip Primer* (see technical data sheet).



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To fill gaps between tiles and to create a perfectly levelled surface, apply the filling primer *Vaposhield* (see technical data sheet). *Vaposhield* is 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 product.

Concrete

On extremely smooth substrate, scratch the surface, remove all the dust and then apply *Grip Primer* (see technical data sheet).

If the substrate is moist or affected by rising damp, use the primer - vapour barrier *Vaposhield* (see technical data sheet). *Vaposhield* can also be used to fill small crevices and to level the surface. For supports not mentioned in this technical data sheet please contact Diasen technical department.

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

1. When *Vaposhield* is completely dry, and no later than 48 hours from the end of the application, apply a first coat of *Decorkrete* by means of a stainless steel trowel with rounded edges.

2. Once the first layer of *Decorkrete* has completely dried (6 hours at +20°C / +68°F and 40% of relative humidity) apply a second layer in the same way, until reaching the specified yield and a thickness of 2 mm. Note that 1 gallon U.S. covers about 35.45 – 44.32 ft² for about 0.08 inch of thickness.
3. Once the second layer is completely dry, smooth the surface using 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. Perfectly remove dust with dry cleaning system. On a completely clean surface, apply one layer of *D20* (see data sheet).
5. At complete drying of the *D20*, apply the transparent coating *Aquafloor Eco* in two coats (see technical data sheet) in order to protect *Decorkrete*, increasing its resistance to scratch and wear.

APPLICATION – cloud effect

1. When *Vaposhield* 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 ft² 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.

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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”.

APPLICATION – stone effect

1. When *Vaposhield* 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 ft² 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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Technical Data

Features		Units
Yield	1.5 kg/m ² for 2 mm (0.08 in) of thickness 1 gallon U.S. covers about 35.45 – 44.32 ft ²	kg/m ²
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 st and 2 nd coat (T=+20°C / +68°F; R.H. 40%)	5 - 6	hours
Application temperature	+5 / +35	°C
	+41 / +95	°F
Working time (T=+20°C / +68°F; R.H. 40%)	40	minutes
Walkability (T=20°C / +68°F; U.R. 40%)	4 - 5	hours
Drying of the applied material (T=+20°C / +68°F; R.H. 40%) thickness of 2 mm - 0.08 in	1	day
Storage	12 months in original container and in dry places	months
Packaging		

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

Final performances*		Unit	Regulation	Result		
Compression strength after 1 day	1.58 N/mm ² 229.16 lbf/in ²	N/mm ²	UNI EN 13813	-		
	7 days				8.97 N/mm ² 1300.98 lbf/in ²	C7 C20
	28 days				24.59 N/mm ² 3599.48 lbf/in ²	
Tensile strength after 1 day	0.10 N/mm ² 14.50 lbf/in ²	N/mm ²	UNI EN 13813	-		
	7 days				2.66 N/mm ² 385.80 lbf/in ²	F2 F6
	28 days				6.35 N/mm ² 920.99 lbf/in ²	
Abrasion resistance <i>Decorkrete + Aquaflor Eco gloss type</i> Taber Wear Index (1000 rpm, CS-10 wheels)	181	-	ASTM D4060	-		

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



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