

## DECORATIVE

## DECORK

Cork based decorative finish applicable on walls and floors (grain size 0 – 1 mm; 0 – 0.04 in).

Decorative finish made of cork and water based resins (grain size 0 – 1 mm; 0 – 0.04 in) for the decoration of floors, walls and ceilings. The coating has all the benefits of cork: breathability, thermal insulation, an excellent fire reaction, weathering resistance and durability. It is possible to create endless aesthetical effects, which can have different textures.

## BENEFITS

- Suitable to create decorative effects.
- Breathable and water-repellent.
- Excellent aesthetic effect.
- Easy and quick application.
- LEED accredited and CE branded.

## YIELD

0.8 – 1.0 kg/m<sup>2</sup> in 2 coats.

## COLOUR

Diasen colour chart.

## APPLICATION FIELDS

Product designed for the coating and the decoration of internal walls, ceilings and floors. *Decork* shows excellent adhesion abilities on any kind of support and for this reason, with the correct primer, it can be used on different substrates: metal, plaster, cement supports and tiles. Suitable both indoor and outdoor. To cover external walls, it is recommended to use the specific finish *Diathonite Cork Render* (see technical data sheet).

## PACKAGING

18 kg plastic bucket + 2 kg of colour.

Pallet: 32 bucket (576 kg) + 32 packaging of colour (64 kg).

## UB1 Colour

18 kg plastic bucket + 4.5 kg of colour.

Pallet: 32 bucket (576 kg) + 32 packaging of colour (144 kg).

## STORAGE

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

Storage time: 12 months.

## PREPARATION OF SUPPORT

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

If the surface is crumbly in its entirety, totally scrape it until obtaining a good support and restore lesions or damaged parts with suitable mortar.



Diasen srl

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UNI EN 1504-2

Products and systems for the protection and the restoration of concrete structures—  
Part 2: Protection systems of concrete surface

Thermal conductivity:

$\lambda = 0.086 \text{ W/mK}$

Water vapour permeability:

$\mu = 15$



For application videos, product page, safety data sheet and other information.

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## Technical Data

Features		Unit
Yield	0.8 – 1.0 in two coats	kg/m <sup>2</sup>
Aspect	paste	-
Colour	Diasen colour chart	-
Density	0.75	kg/l
Dilution	By trowel	If necessary max 5% (0.9 l per 18 kg bag)
	By spray	If necessary max 10% (1.8 l per 18 kg bag)
Waiting time between 1 <sup>st</sup> and 2 <sup>nd</sup> coat (T=23°C/73.4°F; R.H. 50%)	about 8 - 10	hours
Grain size	0 - 1	mm
Application temperature	+5 /+35	°C
	+41/+95	°F
Drying time (T=23°C/73.4°F; R.H. 50%)	10	hours
Storage	12 months in original containers and well ventilated areas	months
Packaging	18 kg plastic bucket + 2 kg of colour	kg
	UB1 Colour: 18 kg plastic bucket + 4.5 kg of colour.	

## LEED® Credits

### Standard GBC HOME

Thematic area	Credit	Points
Energy & Atmosphere	EAp1 - Minimum Energy Performance	mandatory
	EAp2 – Minimum Performance of matt package	mandatory
	EAc1 - Optimize Energy Performance	From 1 to 27
	EAc2 – Advanced performance of matt package	2
Materials & Resources	MRp2 – Construction Waste Management	mandatory
	MRc2 - Construction Waste Management	From 1 to 2
	MRc3 – Low Emitting Materials	From 1 to 3
	MRc4 – Recycled Content	From 1 to 2
	MRc5 – Regional Materials	From 1 to 2
	MRc6 – Rapidly Renewable Materials	2

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Standard LEED for New Construction & Major Renovation, LEED for Schools, LEED for Core & Shell, v. 2009		
Thematic area	Credit	Points
Energy & Atmosphere	EAp2 - Minimum Energy Performance	Mandatory
	EAc1 – Optimize Energy Performance	From 1 to 19
Materials & Resources	MRc2- Construction Waste Management	From 1 to 2
	MRc4 – Recycled Content	From 1 to 2
	MRc5 – Regional Materials	From 1 to 2
	MRc6 - Rapidly Renewable Materials	1
Indoor Environmental Quality	IEQc3.2 - Construction Indoor Air Quality Management Plan—Before Occupancy	1
	IEQc4.2 - Low Emitting Materials - Paints and Coatings	1

Final performances		Unit	Regulation	Results
Elasticity	60%	-	ISO 527-1	-
Crack Bridging Ability	2.5	mm	-	-
Weathering Test	1680 hours (10 year*)	hours/ years	EN ISO 11507	-
Thermal conductivity ( $\lambda$ )	0.086	W/mK	EN 12667	-
Water vapour permeability	$\mu = 15$	-	EN ISO 7783	-
Abrasion resistance of the system <i>Decork + Aquafloor Eco</i> (shiny version) Taber Wear Index	70	-	ASTM D 4060	-
Abrasion resistance of the system <i>Decork + Aquafloor Eco</i> (matt version) Taber Wear Index	55	-	ASTM D 4060	-

\* 1680 hours of weathering test are equal to about 10 years. This equivalence is merely indicative and it may vary depending on the weather conditions of the place where the product will be used.

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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In case of hydro-cleaning, wait for the complete drying of the support.

Potential humidity in the support or the vapour due to radiation may compromise the adhesion of the applied product.

On horizontal flat surfaces consider suitable scope to allow the water down flow.

*Decork* adheres to different kind of support without the primer, it is anyway recommended to perform a test to verify the adhesion or the need to use a primer.

## Diathonite plasters or new plasters

Make sure that the plaster is well levelled so it is as smooth as possible. Otherwise, apply a layer of a suitable Diasen's smoother (see technical data sheet). Both on plaster and directly on plaster apply the specific fixative *D20* (see technical data sheet).

For the covering of external walls, it is recommended the use of the specific finish *Diathonite Cork Render* (see technical data sheet).

## Old plaster

Make sure that the plaster is compact and well bonded to the support, otherwise partially or totally remove it and re-make it.

In case of painted plasters, according to the wide range of paints on the market, it is recommended to perform an adhesion test to verify the suitability for the application or the need to use the primer *D20* (see technical data sheet).

On rough plasters, *Decork*, can directly be applied. In case of dusty supports, use the fixative *D20* (see technical data sheet).

## Plasterboard

On plasterboard surfaces, make sure that the joints are sealed and smoothed. Apply the fixative *D20* (see technical data sheet).

## Concrete

In case of new realised cement substrate, this must be sufficiently cured.

In presence of lesions, holes or irregular areas, restore them with suitable cement mortar.

For a better adhesion on smooth and not moist concrete, it is recommended to smooth it, clean it and then apply *Grip Primer* (see technical data sheet).

For the treatment of iron bars, apply the *Anticorrosive 2K* (see technical data sheet).

To obtain a better adhesion on smooth and not absorbent concrete, it is recommended the use of *Grip Primer* (see technical data sheet).

On moist supports, in order to avoid blistering or detachment phenomena, use *Vapostop* (see technical data sheet).

If the support is affected by rising damp, it is necessary the use of *WATstop* (see technical data sheet). *WATstop* can also be used to fill small cracks and to level the support.

On rough concrete use the primer *Vapostop*.

## Tiled floors

Make sure that the tiles are well bonded to the support, otherwise remove them and restore them with suitable cement mortar.

The tiled surface must not present traces of detaching substances as greases, oils, chemical products etc.

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

To fill tiles joints and to create a perfectly levelled surface, use *Vaposhield* (see technical data sheet) applied by hand with steel or rubberized trowel in two coats. *Vaposhield* must be used even if the support is moist or affected by rising damp.

According to the wide range of tiles on the market, it is recommended to perform a test to verify the correct adhesion of the system.

## Wood

Thoroughly clean the surface by removing dust, debris and detaching parts. The wood must be completely dry, well resistant and stable.

Treat the wooden surfaces with the primer *Grip Primer* (see technical data sheet) before the application of *Decork*.

Do not apply the product on wooden supports, matchboarding or on supports with many joints.

## Metal

Thoroughly clean the surface by removing all dirt and potential varnishes not well attached.

Before the application of *Decork*, apply *Grip Primer* (see technical data sheet) on the surface.

In presence of rust, before the application of *Grip Primer*, treat the surface with *Rust Converter* (see technical data sheet).

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If the metal surface is painted, it is recommended to perform a test to verify the correct adhesion of the system.

## Smooth surfaces

On particularly smooth and not absorbent surfaces use the specific primer *Grip Primer* (see technical data sheet).

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

## Treatment of joints

Potential joints on the supports (joints between panels made of concrete or of other materials, expansion, control or insulation joints) must be treated, before the application of *Decork*, with the polyurethane sealant *Diaseal Strong* (see technical data sheet).

Treat points in contact with doorsteps or windows with the sealant *Diaseal Strong*.

## MIXING

Always mix the product before the application with helical drill until obtaining a homogeneous mixture.

- Completely pour the content of the bag in the bucket and add the entire colour.
- Mix the compound for at least 2 or 3 minutes, until obtaining a mixture with uniform colour.
- The product is ready to use and generally it does not need to be diluted. In extremely hot climatic conditions, it is possible to add:
  - For **hand application**, maximum 5% of water (0.9 l of water each 18 kg packaging).
  - For **hopper gun application**, maximum 10% of water (1.8 l per 18 kg packaging).
- It is recommended to dilute the product always in the same way to avoid colour changes.
- Mix again the compound.

Never add other substances to the product.

## APPLICATION

### Application by hand

1. Wait for the complete drying of the primer possibly used.
2. Apply a first abundant coat of *Decork* by steel trowel with rounded edges. The first layer can be used as a smoothing layer to uniform the surface. In case of rain over not completely dry product, carefully verify the suitability of the next covering.
3. When the first layer is completely dry (about 10 hours at 23°C/73.4°F and 50% relative humidity), apply a second thin of product to finish. Do not use too much product for the second coat. For a better result and a more homogeneous coating, it is recommended to cross the coats.
4. Smooth as soon after the application with a 45° rounded edge plastic trowel
5. Application time: about 80/110 m<sup>2</sup> per day.

### Application with hopper gun DS-Spray Gun

1. Wait for the complete drying of the primer possibly used.
2. The hopper gun must have:
  - minimum pressure of the compressor 5.0 bar;
  - nozzle diameter 8.0 mm.
3. Apply a first coat of *Decork* to cover the whole surface. In case of rain over not perfectly dry product, carefully verify the suitability of the next covering.
3. When the first coat is completely dry (about 10 hours at 23°C/73.4°F and 50% relative humidity), apply a second coat of *Decork* until complete covering of the substrate. To obtain a better result and a more homogeneous coating, it is recommended to cross the coats.
4. Do not smooth.
5. Application time: about 200/250 m<sup>2</sup> per day.

*Decork* can also be applied by **spraying machine** DS-5500 Texture Sprayer, nozzle diameter 4.00 mm, pressure level 4 (4.0 atm); in this case, the application time ranges from 700 and 800 m<sup>2</sup> per day.

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At the end of the application of the second coat, to obtain a smooth surface, the finish *Decork* can be sanded and then protected with *Aquaflor Eco* (see technical data sheet).

For floor applications, the decorative finish *Decork* must always be protected with *Aquaflor Eco* (see technical data sheet).

To create decorative effects, the finish *Decork* must be applied in combination with *Decorkoat* (see technical data sheet) and must be sanded. Then protect the surface with *Aquaflor Eco* (see technical data sheet).

### DRYING TIME

At a temperature of 23°C/ 73.4°F and 50% relative humidity, the product dries in about 10 hours.

- Drying time is influenced by environmental relative humidity and by temperature and may significantly change.
- Protect *Decork* during the drying from rain, frost, direct sunlight and wind for at least 2 hours at a temperature of 23°C/73.4°F.
- If applied in higher amount than the expected ones, drying time may significantly increase.

### 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 or frost, in conditions of strong fog or with relative humidity level higher than 70%.
- Apply the product on completely dry surfaces.
- Protect the product from pouring rain until complete drying.
- Before the product application, it is recommended to cover each element that will not be coated.
- Store the unused product in the original packaging.

### CLEANING

Wash tools with water right after the use.

When the product is completely dry, for the cleaning, it is recommended to use neutral and not aggressive detergents. Choose the most suitable cleaning method (sponge, brush or high-pressure water jet machine) according to the type of dirt.

### SAFETY

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

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