

DECORK MEDITERRANEO

Breathable, flexible, elastic and water-repellent finishing coating based on cork powder and clay (grain size 0 – 300 µm)

Biophilic and decorative finish based on cork powder, white clay and high-tech biopolymers. With its water-based formulation, *Decork Mediterraneo* increases the mechanical resistance and water-repellence of surfaces, improving living comfort. It prevents the formation of mould, condensation and hair cracks. It is a versatile ecological coating, ideal for interior design – including floors and wet areas – and as a coloured finish for facades or *Diathonite* thermal mortars insulation systems.

YIELD

0.5 – 0.7 kg/m² (0.1024 - 0.1434 lb/ft²) in 2 coats.

PACKAGING

10 kg plastic bucket (neutral product).
Toner in 0.250 kg / 0.500 kg / 1.000 kg / 2.000 kg plastic bucket (according to the chosen shade).

Pallet

	No. of buckets	Total pallet weight
<i>Decork Mediterraneo neutral</i>	48 buckets	480 kg
<i>Decork Mediterraneo neutral</i> + <i>0,250 kg toner</i>	48 buckets	492 kg
<i>Decork Mediterraneo neutral</i> + <i>0,500 kg toner</i>	48 buckets	504 kg
<i>Decork Mediterraneo neutral</i> + <i>1,000 kg toner</i>	48 buckets	528 kg
<i>Decork Mediterraneo neutral</i> + <i>2,000 kg toner</i>	48 buckets	576 kg

APPEARANCE AND COLOR

Paste

Light colour, can be pigmented by using Toners

STORAGE

Store the product in its original, well-closed packaging, properly protected from sun, water, frost and kept at temperatures between +5°C and +35°C (+41°F and +95°F). Storage time: 12 months.

FIELD OF APPLICATION

Decorative finish for interior design, designed for the creation of continuous coatings. Ideal solution to customize walls, ceilings and floors, successfully extending also to furnishing accessories and wet areas. Thanks to its excellent water-repellent properties, it is the ideal solution for outdoor applications. Perfect finish to complete thermal insulation systems made with *Diathonite* thermal mortars.

BENEFITS

- Improvement of thermal comfort, thanks to the presence of cork.
- If applied outdoors, it prevents the absorption of rainwater.
- Breathable.



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- Prevents mould and condensation problems.
- Flexible.
- Suitable for applications in coastal areas.
- Unique and Mediterranean aesthetics.
- Versatility in the fields of use.
- Customization of colours and textures.

PREPARATION OF THE SUPPORT

The substrate must be completely hardened and have sufficient resistance. The surface must be perfectly levelled, thoroughly cleaned, dry, free from oils, greases, friable and inconsistent parts or other materials that may affect the product's adhesion. In case of water-jet cleaning, wait for the support to dry completely. In cases where the surface is overall friable, remove the degraded coating until a good support is obtained and restore the lesions or damaged parts with a suitable mortar, obtaining a smooth support.

Plaster from the *Diathonite* line

Ensure that *Diathonite* is well leveled with a straightedge so that the surface remains as smooth as possible. Smooth the surface with *Argatherm* lime-based finishing skim coat (see technical data sheet) and then apply *D20* or *Color Primer* (see technical data sheets), depending on the project).

Existing old plaster

Ensure that the plaster is solid, cohesive, and perfectly adhered to the support. In case of damaged parts or parts undergoing detachment, proceed with localized or total removal and restoration. On already painted plasters, mechanical removal of the existing paint is recommended to guarantee optimal adhesion. On smooth or micro-cracked

supports, apply the white leveling undercoat *Color Primer* (see technical data sheet). On dusty supports (not cracked), proceed with surface consolidation using *D20* fixative (see technical data sheet). On dusty, smooth, and cracked supports, apply both products (see technical data sheets) in this order:

- *D20* (consolidation agent);
- *Color Primer* (leveling undercoat).

Plasterboard

Ensure that the joints are filled, cured, and sanded according to professional standards, verifying the perfect flatness of the plasterboard surface. Proceed with the preparation of the base by applying one coat of *D20* fixative (see technical data sheet) to level the absorption of the support, followed by one coat of the white bonding undercoat *Color Primer* (see technical data sheet) to guarantee the optimal adhesion capacity of the subsequent finishing.

Concrete

Newly constructed concrete supports must be perfectly cured, cohesive, and dust-free. In the presence of cracks, cavities, or surface irregularities, proceed with volumetric restoration using a suitable cementitious mortar. Should reinforcement rods be exposed, a preventive treatment with a specific passivating agent is required. To guarantee optimal adhesion capacity on smooth and dry concrete, the application of *Color Primer* base (see technical data sheet) is recommended. In case of damp supports or those subject to rising damp, preventive waterproofing using the *Watstop* system (see technical data sheet) is indispensable).

Wood

Surfaces must be thoroughly cleaned, removing dust, friable residues, and

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peeling flakes. The support must be perfectly dry, cohesive, dimensionally stable, and present a regular and uniform surface. Before applying *Decork Mediterraneo*, proceed with priming using *Color Primer* (see technical data sheet). The product is not suitable for direct application on floorboards, match boarding, or supports characterized by a high number of joints; in such configurations, a prior skimming with *Argatherm* lime-based plaster (see technical data sheet) is required, with a thickness of approximately 5 mm, reinforced with the appropriate *Polites 80* fiberglass mesh (see technical data sheet).

Metal

Surfaces must be perfectly cleaned, removing dirt, grease, and any residues of pre-existing paints, even if well-adhered. In the presence of corrosion or traces of oxidation, it is necessary to pre-treat the support with suitable anti-rust products. If the metal surface is already painted, mechanical removal of the existing coating is recommended to guarantee the maximum stability of the system. Before proceeding with the application of *Decork Mediterraneo*, always prime the surfaces with the bonding undercoat *Color Primer* (see technical data sheet).

Mosaics or trowelled surfaces

Ensure that the mosaic or tiles are firmly anchored to the support and not damaged; otherwise, remove them and restore the surface with a suitable cementitious mortar. The tiled surface must be free of any bond-breaking substances, such as grease, waxes, oils, chemicals, etc. Sand the surface beforehand to increase the adhesion capacity of the product to the support. After thoroughly brushing the surface and removing all loose parts or residual debris, apply the *Watstop* product (see technical data sheet) in two coats

using a stainless-steel trowel or a short-hair roller.

For floor applications, it is recommended to use *Watstop* (see technical data sheet) with a consumption rate sufficient to completely fill the joints and achieve a perfectly flat and leveled surface. For vertical applications of *Decork Mediterraneo* as a coating over ceramics, a prior skimming of the tiles is required. The system involves applying the *Aquabond* primer (see technical data sheet), followed by the *Argatherm* lime-based plaster (see technical data sheet) reinforced with *Polites 80* fiberglass mesh (see technical data sheet), and finally the *Color Primer* bonding undercoat (see technical data sheet).

JOINT TREATMENT

Any joints present on the support (joints between concrete panels or panels made of other materials, expansion, control, or isolation joints) must be treated before applying *Decork Mediterraneo* using the *Diaseal Strong* polyurethane sealant (see technical data sheet).

MIXING

Open the packaging and the bag containing the product; empty the contents of the bag into the bucket. Add the colour by pouring the entire contents of the package into the bucket. Depending on the chosen application method, add:

- Between 0% - 5% of water for trowel and spray applications;
- Between 5% - 10% of water for brush and medium-hair roller applications;

Mix the compound using a mixing drill with a helical attachment at high speed for at least 2 to 3 minutes, until a homogeneous, lump-free paste with uniform color is obtained. Never add foreign components

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to the compound. Depending on the dilution applied, variations in colour shade or intensity may occur. The values reported above may vary based on the chosen colouring and weather conditions.

APPLICATION

Decork Mediterraneo can be applied using various tools, including a trowel, brush, roller, and spray gun, to create striking and unique aesthetic effects. In fact, the use of different tools offers a wide range of creative possibilities, allowing for one-of-a-kind aesthetic effects.



Decork Mediterraneo can be applied to walls and floors in two coats, depending on the needs and requirements. As it is a product specifically designed for decoration, all combinations of application tools are permitted:

TROWEL	
trowel/trowel	trowel/brush
trowel/roller	trowel/spray gun
BRUSH	
brush/trowel	brush/brush
brush/roller	brush/spray gun
roller	
roller/trowel	roller/brush
roller/roller	roller/spray gun

With the sole exception of spray application, which must be applied in two coats using the same tool.



WALL APPLICATION

Application cycle on walls in highly humid areas (saunas, bathrooms, shower boxes)

1. Waterproof the support by applying at least two coats of *Watstop* (see technical data sheet), and no later than 48 hours after the end of the application, apply a first layer of *Decork Mediterraneo*.
2. When the first layer of *Decork Mediterraneo* is perfectly dry (10 hours at 23°C and 50% relative humidity), apply a second layer until the total consumption rate indicated is reached and a maximum thickness between 0.50 mm and 1 mm is achieved.
3. If the project involves a smooth finishing with visible cork, sand the surface using sandpaper with a 80-120 grain size (or higher, if an even smoother final effect is desired) and carefully remove the dust using dry systems.
4. Finish the system with the transparent coating *Aquafloor Eco* (see technical data sheet) to be applied in three coats, considering a first coat diluted with 30% water and the subsequent two without dilution, in order to protect *Decork Mediterraneo*, increasing resistance to washing, scratches, and wear.

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Application cycle on walls in humid areas that do not require frequent washing

1. Waterproof the support by applying at least two coats of *Watstop* (see technical data sheet), and no later than 48 hours after the end of the application, apply a first layer of *Decork Mediterraneo*.
2. When the first layer of *Decork Mediterraneo* is perfectly dry (10 hours at 23°C and 50% relative humidity), apply a second one until the total consumption rate indicated is reached and a maximum thickness between 0.50 mm and 1 mm is achieved.
3. If the project involves a smooth finishing with visible cork, sand the surface using sandpaper with a 80-120 grain size (or higher, if an even smoother final effect is desired) and carefully remove the dust using dry systems.
4. For walls that do not require special cleaning or are not in exposed areas, it is possible to avoid the application of any other protective coating; otherwise, it is advisable to use *Aquafloor Eco* (see technical data sheet) to be applied in three coats (a first coat diluted with 30% water and the subsequent two without dilution) to protect *Decork Mediterraneo*, increasing resistance to washing, scratches, and wear, or *Revela Zero* (see technical data sheet) to increase the water repellency of the surface.

Application cycle on walls in dry and non-absorbent areas that do not require frequent washing

1. Prime the support by applying one coat of Color Primer (see technical data sheet), followed by a first layer of *Decork Mediterraneo*.
2. When the first layer of *Decork Mediterraneo* is perfectly dry (10

hours at 23°C and 50% relative humidity), apply a second one until the total consumption rate indicated is reached and a maximum thickness between 0.50 mm and 1 mm is achieved.

3. If the project involves a smooth finishing with visible cork, sand the surface using sandpaper with a 80-120 grain size (or higher, if an even smoother final effect is desired) and carefully remove the dust using dry systems.
4. For walls that do not require special cleaning or are not in exposed areas, it is possible to avoid the application of any other protective coating; otherwise, it is advisable to use *Aquafloor Eco* (see technical data sheet) to be applied in three coats (a first coat diluted with 30% water and the subsequent two without dilution) to protect *Decork Mediterraneo*, increasing resistance to washing, scratches, and wear, or *Revela Zero* (see technical data sheet) to increase the water repellence of the surface.

Application cycle on supports requiring frequent washing

In the case of use on supports that require frequent washing, such as furniture, kitchens, or high-traffic walls, it is always recommended to coat *Decork Mediterraneo* with the finishing system consisting of one coat of *D20* with a consumption rate of 0.10 l/m² (see technical data sheet), followed by two coats of *Aquafloor Eco* with a consumption rate of 0.10 kg/m² for each coat (see technical data sheet).

FLOOR APPLICATION

1. The support must be perfectly smooth and levelled; if it is not, the

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prior application of a self-levelling product is always recommended.

2. Create an adhesion base and vapor barrier by applying one or two coats of *Watstop* (see technical data sheet), and no later than 48 hours after the end of the application, apply a first layer of *Decork Mediterraneo* using a stainless-steel trowel with rounded edges.
3. When the first layer of *Decork Mediterraneo* is perfectly dry (10 hours at 23°C and 50% relative humidity), apply a second one until the total consumption rate indicated is reached and a maximum thickness between 0.50 mm and 1 mm is achieved.
4. Once the second layer is also dry, sand the surface using sandpaper with an 80-120 grain size and carefully remove the residual dust using dry systems.
5. Protect *Decork Mediterraneo* with the transparent coating *Aquafloor Eco* (see technical data sheet) to be applied in three coats (a first coat diluted with 30% water and the subsequent two without dilution), thus increasing resistance to washing, scratches, and wear.

SPRAY APPLICATION

Decork Mediterraneo can be applied using a hopper spray gun (such as the DS-Spray Gun model), achieving an application rate of approximately 200/250 m² per day, considering a trained and professional application team and the following tool specifications:

- Minimum compressor pressure 5,0 – 8,0 bars;
- Nozzle diameter 4,0 – 6,0 mm.

Furthermore, *Decork Mediterraneo* can also be applied with a spraying machine (such as the DS-5500 Texture Sprayer

model), which allows for an application rate of approximately 700/800 m² per day, always considering a trained and professional application team and the following tool specifications:

- Pressure: level 4 (4,0 atm);
- Nozzle diameter 4,0 – 6,0 mm.

In both cases, it is necessary to:

1. Wait for the complete drying of the primer used, depending on the support.
2. Apply a first layer of *Decork Mediterraneo* with fluid circular motions to cover the entire surface, from a distance of approximately 400-600 mm from the support. In case of rain and on a product that is not perfectly dry, carefully verify the suitability for subsequent recoating.
3. Once the first layer is completely dry (approximately 10 hours at 23°C and 50% relative humidity), apply a second layer of *Decork Mediterraneo* using the same method as before until the base is completely covered.
4. Do not trowel.

FAÇADE APPLICATION

1. Prime the support using a specific primer (contact the Dياسن Technical Department in case of doubt), followed by a first layer of *Decork Mediterraneo*.
2. When the first layer of *Decork Mediterraneo* is perfectly dry (10 hours at 23°C and 50% relative humidity), apply a second layer until the total consumption rate indicated is reached and a maximum thickness between 0.5 mm and 1 mm is achieved.
3. If the project involves a textured finish with evident grain, without sanding, it is not necessary to add further products; however, additional protection is

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recommended using the transparent water repellent *Revela Zero* (see technical data sheet) in the case of buildings exposed to constant and violent weathering or in areas highly exposed to atmospheric salinity.

4. If the project involves a smooth finish with visible cork, sand the surface using sandpaper with a 80-120 grain size (or higher, if an even smoother final effect is desired) and carefully remove the dust using dry systems, then it is mandatory to protect everything with *Revela Zero* (see technical data sheet).

SANDING

To achieve a smooth and biophilic effect with visible cork, it is necessary to sand the second coat of *Decork Mediterraneo*. The use of a sanding machine (reference model "**Festool**" **ETS EC 125/3 EQ-Plus**, 400 W) is recommended; the use of sandpaper with a grain size between 80-120 is suggested, as this selection represents the operating standard. The type of abrasive mentioned above is to be considered the default starting point. However, the grain size must be varied according to specific design choices: for smoother and silkier effects, it is necessary to switch to higher grains; for more textured or raw effects, lower and more aggressive grains should be chosen. Please also note that by sanding the surface of *Decork Mediterraneo*, the material slightly loses its water-repellent properties, therefore:

1. In the case of applications on external walls or facades, the use of the breathable and transparent water-repellent protector *Revela Zero* (see technical data sheet) is mandatory.
2. In the case of applications on interior walls that require high washability, or are in high-traffic areas, or on floors, the use of the washable transparent protector

Aquafloor Eco (see technical data sheet) is mandatory).

DECORATIVE EFFECTS WITH DECORK MEDITERRANEO

In general, it is recommended to contact the Diasen Technical Department for the best application methods to achieve a specific final decorative effect, or for further information regarding application tools. Please also view the application video on the corporate profile available at this [link](#).

DRYING TIME

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

- Drying times are influenced by environmental relative humidity and temperature, and can vary significantly.
- If applied in high thicknesses, drying times increase considerably.
- Protect *Decork Mediterraneo*, during the curing phase from rain, frost, wind, direct sunlight, and weathering for at least 2 hours at a temperature of 23°C.

SUGGESTIONS

- Do not apply with ambient or support temperatures lower than +5°C and higher than +35°C.
- During the summer season, apply the product during the coolest hours of the day, away from direct sunlight.
- Do not apply with imminent danger of rain or frost, in conditions of thick fog, or with relative humidity higher than 70%.
- For applications on flat surfaces, such as roofs, balconies, and terraces, ensure that the correct slopes have been created and that the specific waterproofing and

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protective cycle has been completed, as any water stagnation may cause localized discoloration.

- Before applying the product, it is recommended to cover sills, window frames, and any element that is not to be coated.
- Store any unused product in its original packaging, taking care to thoroughly clean the inner walls of the bucket; then, carefully reposition the transparent film in contact with the material, ensuring no air bubbles remain, and seal the container.

The equipment used can be washed with water immediately after use. Once the product is completely dry, it is recommended to use neutral, non-aggressive detergents for cleaning. Choose the cleaning method (sponge, scrub brush, or pressure washer) based on the type of dirt present.

SAFETY

During handling, use personal protective equipment (PPE) and comply with the instructions reported in the product's Safety Data Sheet (SDS).

CLEANING AND MAINTENANCE



* The data reported, even if obtained by performing standardized test methodologies, are indicative and may undergo changes as the specific site conditions vary.

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PHYSICAL / TECHNICAL DATA*		
CARACTERISTIC DATA	VALUE	UNIT
Yield	0,5 – 0,7 kg/m ² In 2 coats	kg/m ²
Appearance	pasta	-
Color	Light colour, can be pigmented by using Toners	-
Density	1,20	kg/L
Dilution	0% - 5% of water for trowel and spray applications	-
	5% - 10% of water for brush and medium-hair roller applications	
Waiting time between the 1 st et 2 nd coat (T=23°C; U.R. 50%)	circa 8 - 10	hours
Grain size	0 - 300	µm
Application temperature	+5 / +35	°C
Drying time (T=23°C; U.R. 50%)	Approx. 10	hours
Storage	12	months
Packaging	10 kg plastic bucket	kg

* 1680 hours of accelerated weathering correspond to approximately 10 years. This correspondence is purely indicative and may vary significantly depending on the weather conditions of the location where the product is used.

PERFORMANCES*				
FINAL PERFORMANCES	VALUE	UNIT	NORME	RESULT
Reaction to fire	Class B – s1,d0	-	UNI EN 13501-1	-
Elasticity	195%	-	ISO 527-1	-
Crack Bridging Ability	1,5	mm	-	-
Resistance to accelerated weathering cycles (Weathering Test)	1680 hours (> 10 years**)	hours years	UNI EN ISO 11507	-
Thermal conductivity (λ)	0,057	W/mK	UNI EN 12667	-
Adhesion by direct traction on self-leveling cementitious screed	0,98 – 1,12	N/mm ²	UNI EN ISO 4624	-
Adhesion with D20 on tuff Adhesion test - pull off	1,0	MPa = N/mm ²		Excellent
Adhesion on WATSTOP Adhesion test - pull off	Adh	MPa = N/mm ²		Excellent
Mandrel bend test	2,0	mm	ISO 1519	Excellent
Theoretical specific heat	1,8	KJ/kg K	-	-
Water vapor permeability	µ = 7	-	UNI EN ISO 7783	-
CO ₂ permeability	Class C1	-	UNI EN 1062-1	-
Water permeability	Class W2	-		-
Gloss	Class G3	-		-
Grain size	Class S1	-		-
Thickness	Class E5	-		-
Water vapor transmission rate	Class V1	-		-

PROPRIETY	VALUE	TEST METHOD
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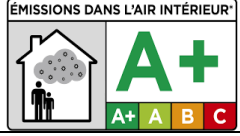
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+39 07329718 | diasen.com | P.IVA 01553210426
R.E.A. Ancona n. 150933 Reg. Imp. Ancona 01553210426
Cap. Soc. € 400.000,00 i.v.

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DECORK MEDITERRANEO

Breathable, flexible, elastic and water-repellent finishing coating based on cork powder and clay (grain size 0 – 300 µm)

Anti-slip test	Sanded Decork (sandpaper 400/600) + Aquafloor Eco	In the presence of water (barefoot)	16° class A	DIN 51097
	Sanded Decork (sandpaper 80/100) + Aquafloor Eco		11° class A	
	Sanded Decork (sandpaper 400/600) + Aquafloor Eco	In the presence of oil (shod foot)	14° class R10	DIN 51130
	Sanded Decork (sandpaper 80/100) + Aquafloor Eco		11° class R10	

INDOOR AIR QUALITY (IAQ) CERTIFICATION		
Evaluation of the results		
Regulation or protocol	Version of regulation or protocol	Conclusion
French VOC Regulation	Decree of March 2011 (DEVL1101903D) and Arrêté of April 2011 (DEVL1104875A) modified in February 2012 (DEVL1133129A)	
French CMR components	Regulation of April and May 2009 (DEVP0908633A and DEVP0910046A)	Pass
Italian CAM Edilizia	Decree 11 October 2017 (GU n.259 del 6-11-2017)	Pass
AgBB/ABG	Anforderungen an bauliche Anlagen bezüglich des Gesundheitsschutzes, ABG May 2019, AgBB August 2018	Pass
Belgian Regulation	Royal decree of May 2014 (C-2014/24239)	Pass
Indoor Air Comfort®	Indoor Air Comfort 7.0 of May 2020	Pass
Blue Angel (DE-UZ 113)	DE-UZ 113 for "Low-Emission Floor Covering Adhesives and other Installation Materials" (Version January 2019)	Pass
BREEAM International	BREEAM International New Construction v2.0 (2016)	Exemplary Level
BREEAM® NOR	BREEAM-NOR New Construction v1.2 (2019)	Pass
LEED®	"Low-Emitting Material" according to the requirements of LEED v4.1	Pass
CDPH: Classroom scenario	CDPH/EHLB/Standard Method V1.2. (January 2017)	Pass

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