

DECORK MEDITERRANEO

Coloured, ecological, water repellent, breathable, thermal cork-based finish
(grain size 0 – 300 µm)

A coloured finishing coating with grain size of 0 – 300 µm (0 – 0.012 in) formulated with cork and clay, water-based resins and high-tech waxes designed to increase the product's mechanical properties and water repellency. Decork Mediterraneo is characterised by its high thermal insulating, water-repellent and breathable properties. Ecological product, to be used for the coloured finishing of old and new facades, thermal plasters (such as *Diathonite Evolution* or *Diathonite Thermactive.037*), thermal insulation systems and pitched roofs. It can be used both indoors and outdoors, for wall and floor decoration. It prevents the absorption of rainwater by the masonry and prolongs the life of the plaster.

BENEFITS

- Breathable and water resistant, it avoids the development of moulds.
- Suitable and ideal for cracked substrates, it avoids reinforced skim coat.
- Highly elastic, it is ideal on cracked plasters.
- In combination with thermal plasters (such as *Diathonite Thermactive.037*) maintains excellent thermal comfort.
- Resistant to UV rays, atmospheric factors, industrial and marine environments, and to low and high temperatures.
- Low-thickness application
- *Rustic effect* finish ('*Tonachino*' effect).
- Made from natural raw materials.
- Easy and quick application.
- Product suitable for indoor and outdoor applications.
- Designed for both wall and floor decoration.

YIELD

0.3 – 0.5 kg/m² in 2 coats for brush applications per 0.6 mm thickness.

0.06 – 0.10 lb/ft² in 2 coats for brush applications per 0.024 inch thickness

0.5 – 0.7 kg/m² in 2 coats for trowel applications per 0.5 mm thickness.

0.10 – 0.14 lb/ft² in 2 coats for trowel applications per 0.019 inch thickness.

COLOUR

Choice from colour chart, with the possibility of creating custom colours.

PACKAGING

10 kg plastic bucket of neutral product + 0.250 kg / 1.000 kg / 2.000 kg plastic bucket (depending on the shade chosen) of toner.

Pallet: 36 buckets (360 kg) + 36 packs of toner (9 kg / 36 kg / 72 kg).

APPLICATION FIELDS

Product designed for the finishing coating of facades, old and new plasters, thermal plasters such as *Diathonite Evolution* and *Diathonite Thermactive.037* (see relevant technical data sheets), coating systems or pitched roofs. It has excellent adhesion capacity on any kind of support and for this reason it can be used in many situations: cementitious supports, plasters, wood or metal. Product also suitable for outdoor use.



FINISHES – pastes

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STORAGE

The product must be stored in the original containers perfectly closed, in well-ventilated areas, away from sunlight, water and frost, at temperatures between +5°C and +35°C. Storage time: 12 months.

PREPARATION OF THE SUPPORT

The substrate must be completely hardened and have sufficient strength. The surface must be perfectly level, thoroughly clean, dry, and free of oil, grease, crumbling and inconsistent parts or other materials that may damage the product's adhesion. In the case of hydro-cleaning, wait until the substrate is completely dry. In cases where the surface is crumbly as a whole, scarify it completely until a good substrate is obtained and restore lesions or degraded parts with suitable mortar. *Decork Mediterraneo* adheres to various types of support; however, it is recommended to carry out a preliminary test to check adhesion and the possible need to use a primer.

Plaster from the *Diathonite* line or new plasters

Ensure that the plaster is well levelled so that the surface remains as rough as it can be; if this is not possible, apply a coat of a suitable *Diasen* smoother beforehand. Both on the skim coat and directly on the plaster, apply the specific fixative D20 (see technical data sheet). In the case of a cracked and micro-cracked base, apply the white coloured primer named *Color Primer* (see technical data sheet).

Old plaster

Ensure that the plaster is consistent and well adhered to the substrate; if it is not the case, provide for partial or total removal and rebuilding of the plaster. In the case of painted plaster, given the wide variety of paints available on the market, it is advisable to carry

out an adhesion test to check suitability for application or the need to use *D20* primer (see technical data sheet) and/or *Color Primer* (see technical data sheet). On rough plasters proceed with the direct application of *Decork Mediterraneo*, while on rough but dusty substrates use *Color Primer* (see technical data sheet).

Plasterboard

On plasterboard surfaces, make sure that the joints are filled and sanded to perfection, then apply the primer *Grip Primer* (see technical data sheet).

Concrete

In the case of a newly constructed cement base, this must be sufficiently cured. In the presence of cracks, holes or irregular areas, restore them with appropriate cement mortar. For the treatment of the reinforcing rods apply a suitable passivating agent. For better adhesion on smooth, not wet concrete, we recommend using *Grip Primer* (see technical data sheet). On damp substrates and not in contact with the ground, in order to avoid blistering or detachment phenomena, use *Vapostop* (see technical data sheet) as a primer. If the substrate is subject to rising damp, it is necessary to use *WATstop* (see technical data sheet). *WATstop* can also be used to fill small cracks or cracks. On rough concrete use *Vapostop* as primer (see technical data sheet).

Wood

Thoroughly clean the surface eliminating dust, crumbly parts and flaking flakes. The wood must be completely dry, well cohesive and dimensionally stable. Prime the wooden surfaces with *Grip Primer* (see technical data sheet) before proceeding with the application of *Decork Mediterraneo*. Do not apply the product on boards, matchboards or supports with a high number of joints.

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Metal

Perfectly clean the surface, eliminating dirt and any loose paint. Before proceeding with the application of *Decork Mediterraneo*, prime the metal surfaces with *Grip Primer* (see technical data sheet). In the presence of rust, before applying *Grip Primer*, treat the surface with suitable anti-rust products. If the metal surface is painted, it is recommended to carry out a test to verify the perfect adhesion of the system.

Smooth surfaces

On particularly smooth and non-absorbent surfaces use *Grip Primer* (see technical data sheet). For supports not listed in the technical data sheet, contact the *Diasen* technical office.

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 *Decork Mediterraneo* with the polyurethane sealant *Diaseal Strong* (see technical data sheet).

MIXING

Open the package 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 packet into the bucket. Mix the mixture with a high-speed, helical-tipped stirrer for at least 2 to 3 minutes until the mixture is smooth, lump-free and uniform in colour. The product is ready to use and should generally not be diluted. In extremely hot climatic conditions, it is possible to add:

- Between 0 % - 5 % water for trowel applications (0 L - 0.5 L per 10 kg / 22.04 lb packaging) of neutral product.
- 0 % for trowel applications of toner;
- Between 10% - 20% water for brush applications (1 L - 2 L per 10 kg / 22.04

lb packaging) of neutral product.

- Between 5% - 15% water for brush applications (0.5 L - 1.5 L per 10 kg / 22.04 lb packaging) of toner.

Mix the mixture again. Never add foreign components to the mixture.

APPLICATION

Wall application: by trowel

1. For wall applications, opt for *Grip Primer* (see product data sheet).
2. Wait for the complete drying of the primer.
3. Apply a first generous layer of *Decork Mediterraneo* with a stainless-steel trowel with rounded edges. The first layer can be used as a smoothing to even out the surface. In case of rain on a not perfectly dry product, carefully check its suitability for the subsequent coating.
4. After the complete drying of the first layer (about 10 hours at 23°C and 50% relative humidity) apply a second thin layer of product to finish.
5. Application time: approximately 80/110 m² (860.8/1183.6 ft²) per day.

Floor application: by trowel

1. For floor applications, apply *WATstop* primer (see product data sheet).
2. Wait for the complete drying of the primer.
3. Apply a first generous layer of *Decork Mediterraneo* with a stainless-steel trowel with rounded edges. The first layer can be used as a smoothing to even out the surface. In case of rain on a not perfectly dry product, carefully check its suitability for the subsequent coating.
4. After the complete drying of the first layer (about 10 hours at 23°C and 50% relative humidity) apply a second thin layer of product to finish.
5. Application time: approximately 80/110 m² (860.8/1183.6 ft²) per day.

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Brush application

1. For brush applications, on dusty surfaces apply *D20 primer* or *Color Primer* for cracked and micro-cracked substrates (see relevant product data sheets).
2. Wait for the complete drying of the primer.
3. Apply a first layer of *Decork Mediterraneo* with fluid movements to cover the entire surface. In case of rain and on a product that is not perfectly dry, carefully check its suitability for the subsequent coating.
4. When the first layer is completely dry (about 10 hours at 23°C and 50% relative humidity), apply a second layer of *Decork Mediterraneo* in the same way as previously used until the substrate is completely covered.
5. Application time: approximately 80/110 m² (860.8/1183.6 ft²) per day.

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 it may significantly change.
- Protect *Decork Mediterraneo* in the ripening phase from rain, frost, direct sunlight and wind for at least 2 hours at a temperature of 23°C.
- If applied with a higher amount than the expected one, drying time can significantly increase.

SUGGESTIONS

- Do not apply at environmental 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 frost, in conditions of strong fog or with relative humidity higher than 70%.
- Apply the product over completely dry surfaces.
- The product is not suitable for plane coverings. Possible water stagnations can create localised whitening.
- Before the product's application, it is recommended to cover doorsteps, fixtures and each element that must not be coated.
- Store the not used product in the original package.

CLEANING

Wash tools with water as soon after use. After the complete drying of the product, for the cleaning, it is recommended to use neutral 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 equipment and respect the instructions described in product safety data sheet.

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

Technical Data*			
Features			Unit
Yield	0.3 – 0.50	in 2 coats for brush applications per 0.6 mm thickness	kg/m ²
	0.06 – 0.10	in 2 coats for brush applications per 0.024 inch thickness	lb/ft ²
	0.5 – 0.7	in 2 coats for trowel applications per 0.5 mm thickness	kg/m ²
	0.10 – 0.14	in 2 coats for trowel applications per 0.019 inch thickness	lb/ft ²
Aspect	paste		-
Colour	See colour chart		-
Specific weight	1,20		kg/L
	74.90		lb/ft ³
Dilution	0 % - 5 % water: trowel applications (0 L - 0.5 L per 10 kg / 22.04 lb packaging)	Neutral colour	-
	0 %: trowel applications	Toner	
	10% - 20% water: brush applications (1 L - 2 L per 10 kg / 22.04 lb packaging)	Neutral colour	
	5% - 15% water: brush applications (0.5 L - 1.5 L per 10 kg / 22.04 lb packaging)	Toner	
Waiting time between 1 st and 2 nd coat T=23°C / 73.4°F; R.H. 50%	about 8 – 10		hours
Grain size	0 – 300		µm
	0 – 0.012		in
Application temperature	+5 / +35		°C
	+41 / +95		°F
Drying time T=23°C / 73.4°F; R.H. 50%	About 10		hours
Storage	12		months
Packaging	10 kg	plastic bucket	kg
	22.04 lb		lb

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

Final performances		Unit	Regulations	Results
Elasticity	195%	-	ISO 527-1	-
Crack Bridging Ability	1.5	mm	-	-
	0.059	in		
Weathering Test**	1680 hours (10 years**)	hours / years	ISO 11507	-

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Thermal conductivity (λ)	0.086	W/m K	EN 12667	-
Adhesion to self-levelling concrete screed (direct traction)	0.98 – 1.12 142.2 – 162.4	N/mm ² lbf/in ²	EN ISO 4624	- -
Adhesion with D20 to tuff	1.0	N/mm ²		excellent
Adhesion to WATstop	145	lbf/in ²		
	Adhesion pull off test	2.0		N/mm ²
	290	lbf/in ²		
Bend test (cylindrical mandrel)	2,00 0.079	mm in	ISO 1519	excellent
Theoretical specific heat	1.8	KJ/kg K	-	-
Water vapour permeability	$\mu = 7$	-	UNI EN ISO 7783	-
Permeability to CO ₂	Class C1	-	UNI EN 1062-1	-
Permeability to water	Class W2	-		-
Transmission of water vapour	Class V3	-		-
Gloss	Class G3	-		-
Grain size	Class S1	-		-
Thickness	Class E5	-		-
Crack Bridging	Class A5	-		-

*** credits only valid for LEED for Schools, LEED for Core & Shell standards, v. 2009.

LEED® Credits

***Standard LEED for New Construction & Major Renovation,
LEED for Schools, LEED for Core & Shell, v. 2009

Thematic Area	Credit	Scoring
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
	IEQc3.2 - Construction Indoor Air Quality Management Plan—Before Occupancy	1
Indoor Environmental Quality	IEQc4.2 - Low Emitting Materials - Paints and Coatings	1

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Indoor Air Quality (AIQ) 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
Indoor Air Comfort GOLD®	Indoor Air Comfort GOLD 7.0 of May 2020	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)
	Office scenario	CDPH/EHLB/Standard Method V1.2. (January 2017)



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