

## CORK-BASED DECORATIVE FINISH

## DECORK MEDITERRANEO

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

A coloured finishing coating with a grain size of 0 - 300 µm, formulated with cork and clay, water-based resins and high-tech water-based biopolymer designed to increase the product's mechanical properties and water repellence. *Decork Mediterraneo* is characterised by its high thermal insulating, water-repellent and breathable properties. Ecological product, to be used for 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 meteoric water by the masonry and prolongs the life of the plaster.

## BENEFITS

- Breathable and water resistant, it avoids the formation 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 an 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).
- Formulated with natural raw materials.
- Easy and quick application.
- Product suitable for indoor and outdoor applications.
- Designed for both wall and floor decoration.

## YIELD

0.25 – 0.4 kg/m<sup>2</sup> in 2 coats for brush and roll applications per 0.6mm thickness.

0.051 – 0.082 lb/ft<sup>2</sup> in 2 coats for brush and roll applications per 0.019-inch thickness

0.5 – 0.7 kg/m<sup>2</sup> in 2 coats for spatula and spray applications per 0.5 mm thickness.

0.10 – 0.14 lb/ft<sup>2</sup> in 2 coats for spatula and spray 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, to which it can be added 0.250 kg / 0.500 kg / 1.000 kg / 2.000 kg plastic bucket (depending on the shade chosen) of toner.

- Pallet with **neutral Decork Mediterraneo** only: 64 buckets of 10 kg each (640 kg);
  - Pallet with **neutral Decork Mediterraneo + 0,250 kg toner**: 64 buckets of 10 kg (640 kg) + 64 packages of toner (19 kg).
  - Pallet with **neutral Decork Mediterraneo + 0,500 kg toner**: 64 buckets of 10 kg (640 kg) + 64 packages of toner (32 kg).
  - Pallet with **neutral Decork Mediterraneo + 1,00 kg toner**: 64 buckets of 10 kg (640 kg) + 64 packages of toner (64 kg).



DIASEN SRL UNIPERSONALE - Società Benefit

Zona Industriale Berbentina 5 - 60041 Sassoferrato (AN) | Italia | +39 0732 9718  
 diasen@diasen.com | www.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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- Pallet with **neutral Decork Mediterraneo + 2,00 kg toner**: 48 buckets of 10 kg (480 kg) + 48 packages of toner (96 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.

## STORAGE

The product must be stored in its original tightly closed containers, in a well-ventilated place, 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. In the case of a cracked substrate, check the adhesion of the existing layer. *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 little rough as possible; Shave the surface with the lime-based product

called *Argatherm* and then apply the specific fixative *D20* (see data sheet).

## Old plaster

Ensure that the plaster is consistent and well adhered to the substrate; if not, consider partial or total removal and redoing it. In the case of painted plasters, given the wide variety of paints on the market, it is advisable to perform an adhesion test to verify suitability for application or the need to use a primer. On smooth, cracked and micro-cracked substrates, apply white-colored *Color Primer*. On non-cracked but dusty substrates, proceed with the application of *D20*. On dusty, smooth and cracked substrates, application of both products is recommended.

## Plasterboard

On plasterboard surfaces, make sure joints are grouted and sanded properly, and then apply *D20* fixative first, then *Color Primer* (see data sheets).

## Concrete

In the case of newly made cement foundation, it must be sufficiently seasoned. If there are cracks, holes or irregular areas, restore them with suitable cementitious mortar. To treat reinforcing bars, apply suitable passivating agent. For better adhesion on smooth, non-wet concrete, the use of *Color Primer* is recommended (see data sheet). On damp substrates and/or subject to rising damp, the use of *WATstop* is required (see data sheet). *WATstop* can also be used to fill small cracks or crazing.

## Wood

Thoroughly clean the surface by removing dust, brittle parts and flakes in the process of detachment. The wood should appear completely dry, well cohesive and dimensionally stable. Prime wood surfaces with *Color Primer*

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(see data sheet) before proceeding with the application of *Decork Mediterraneo*. Do not apply the product to boards, matchboards or substrates with a large number of joints. In this case, shaving with *Argatherm* product reinforced with *Polites 80* fiberglass reinforcement mesh is recommended.

## Metal

Thoroughly clean the surface by removing dirt and any loose paint. Before proceeding with the application of *Decork Mediterraneo*, prime metal surfaces with *Color Primer* (see data sheet). If there is rust, treat the surface with suitable rust inhibitors before applying *Color Primer*. If the metal surface is painted, it is recommended to perform a test to check the perfect adhesion of the system.

## Mosaics or tiled surfaces

Make sure that the mosaic or tiles are well anchored to the substrate and not damaged; if not, remove them and restore them with suitable cement mortar. The tiled surface should have no traces of detaching substances, such as grease, waxes, oils, chemicals, etc. Sand the surface beforehand with the aim of increasing the adhesion of the product to the substrate. After properly brushing the surface and removing all loose parts or any residual debris, apply *Watstop* product in two coats with an American spatula or short-haired roller.

## 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. Depending on the chosen application method, add:

- between 0% - 5% water for spatula applications;
- between 0% - 5% water for spray applications;
- between 5% - 15% water for brush applications;
- between 15% - 25% water for medium-hair roller applications.

Mix the mixture with a high-speed helicoidal stirrer for at least 2 to 3 minutes until a homogeneous, lump-free and uniformly coloured mixture is obtained.

Never add foreign components to the mixture. Depending on the dilution applied, there may be variations in shade or colour intensity.

## APPLICATION

*Decork Mediterraneo* can be applied with a variety of tools, including spatula, brush, roller and airless to create surprising and unique aesthetic effects. The use of different tools can offer a wide range of creative possibilities and enable unique aesthetic effects. *Decork Mediterraneo* can be applied to walls and floors, depending on need and demand, in two coats.

Being a product designed specifically for decoration, the combinations of application tools are all allowed:

SPATULA	
spatula / spatula	spatula / brush
spatula / roll	spatula / airless
BRUSH	
brush / spatula	brush / brush
brush / roll	brush / airless
ROLL	
roll / spatula	roll / brush
roll / roll	roll / airless



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with the sole exception of *spray* application, which must be given in two coats with the same tool.

## WALL APPLICATION

**In highly humid rooms where contact with water is expected.**

1. In case of applications to saunas or shower stalls, when the *Watstop* product is completely dry (applied in two coats), and no later than 48 hours after the application is complete, apply a first coat of *Decork Mediterraneo* with an American stainless-steel spatula with rounded edges
2. When the first coat of *Decork Mediterraneo* is perfectly dry (6 hours at 23°C and 50% relative humidity), apply a second one in the same way until the total yield indicated and a maximum thickness between 0.50 mm and 1 mm.
3. Once the second layer is also dry, sand the surface with sandpaper with grit size 80-120.
4. Thoroughly remove residual dust with dry systems, then apply *Aquafloor Eco* in two coats (see data sheet) to protect *Decork Mediterraneo*, increasing scratch and wear resistance

### On moist substrates

1. When the *Watstop* product is completely dry (in two coats), and no later than 48 hours after the application is complete, apply a first coat of *Decork Mediterraneo* with an American stainless-steel spatula with rounded edges.
2. When the first coat of *Decork Mediterraneo* is perfectly dry (6 hours at 23°C and 50% relative humidity), apply a second one in the same way until the total yield indicated and a maximum thickness between 0.50 mm and 1 mm.
3. If, by design, the intended effect requires sanding, once the second layer of

decorative is also dry, proceed with an 80-120 grit sandpaper.

4. Thoroughly remove residual dust with dry systems, then apply *BKK Eco* (see data sheet) to protect *Decork Mediterraneo*, increasing scratch and wear resistance.

### On dry, nonabsorbent substrates

1. When the *Color Primer* product is completely dry, and no later than 48 hours after the application is complete, apply a first coat of *Decork Mediterraneo* with an American stainless-steel spatula with rounded edges.
2. When the first coat of *Decork Mediterraneo* is perfectly dry (6 hours at 23°C and 50% relative humidity), apply a second one in the same way until the total yield indicated and a maximum thickness between 0.50 mm and 1 mm.
3. If by design the intended effect requires sanding, once the second layer of decorative is also dry, proceed with an 80-120 grit sandpaper.
4. Thoroughly remove residual dust with dry systems, then apply *BKK Eco* (see data sheet) to protect *Decork Mediterraneo*.

## FLOOR APPLICATION

1. When the *WATstop* product is completely dry, and no later than 48 hours after the application is complete, apply a first coat of *Decork Mediterraneo* with an American stainless-steel spatula with rounded edges.
2. When the first coat of *Decork Mediterraneo* is perfectly dry (6 hours at 23°C and 50% relative humidity), apply a second one in the same way until the total yield indicated and a maximum thickness between 0.50 mm and 1 mm.
3. Once the second layer is also dry, sand the surface with sandpaper with grit size 80-120.
4. Thoroughly remove residual dust with dry systems, then apply *Aquafloor Eco* in two coats (see data sheet) to protect *Decork Mediterraneo*.



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## Decorative effects with *Decork Mediterraneo*

In general, please refer to the Diasen Technical Office on the best application methods to obtain a specific final decorative effect, or for more information on application tools. We also recommend to check the application video on the company profile available at this [link](#).

## 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 it 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 cleaning it, 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, use PPE equipment and respect the instructions described in the MSDS.

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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	0.25 – 0.4	in 2 coats <b>for brush and roll applications</b> per 0.5 mm thickness	kg/m <sup>2</sup>
	0.051 – 0.082	in 2 coats <b>for brush and roll applications</b> per 0.019 inch thickness	lb/ft <sup>2</sup>
	0.5 – 0.7	in 2 coats <b>for spatula and spray applications</b> per 0.5 mm thickness	kg/m <sup>2</sup>
	0.10 – 0.14	in 2 coats <b>for spatula and spray applications</b> per 0.019 inch thickness	lb/ft <sup>2</sup>
Aspect	paste		-
Colour	See colour chart		-
Specific weight	1,20		kg/L
	74.90		lb/ft <sup>3</sup>
Dilution	0 % - 5 % water: spatula applications (0 L - 0.5 L per 10 kg / 22.04 lb packaging)		-
	0 % - 5 % water: spray applications (0 L - 0.5 L per 10 kg / 22.04 lb packaging)		
	5% - 15%: brush applications (0,5 L – 1,5 L per 10 kg / 22.04 lb packaging)		
	15% - 25% water: brush applications (1.5 L - 2.5 L per 10 kg / 22.04 lb packaging)		
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 – 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

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\*\* 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	
Reaction to fire	class B - s1,d0	-	UNI EN 13501-1	-	
Elasticity	195%	-	ISO 527-1	-	
Crack Bridging Ability	1.5	mm	-	-	
	0.059	in			
Weathering Test**	1680 hours (10 years**)	hours / years	ISO 11507	-	
Thermal conductivity ( $\lambda$ )	0.057	W/m K	EN 12667	-	
Adhesion to self-levelling concrete screed (direct traction)	0.98 – 1.12	N/mm <sup>2</sup>	EN ISO 4624	-	
	142.2 – 162.4	lbf/in <sup>2</sup>		-	
Adhesion with D20 to tuff	1.0	N/mm <sup>2</sup>		excellent	
	145	lbf/in <sup>2</sup>			
Adhesion to WATstop	2.0	N/mm <sup>2</sup>			
	290	lbf/in <sup>2</sup>			
Bend test (cylindrical mandrel)	2.00	mm	ISO 1519	excellent	
	0.079	in			
Theoretical specific heat	1.8	KJ/kg K	-	-	
Water vapour permeability	$\mu = 7$	-	UNI EN ISO 7783	-	
Permeability to CO <sub>2</sub>	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	-		-	

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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)

