DECORK FAÇADE

Coloured, ecological, water repellent, breathable, thermal cork-based finish (grain size 0 - 1 mm)

Coloured finishing coating (grain size 0 – 1 mm / 0 – 0.04 in) based on cork, water-based resins, siloxanes, with high thermal insulation, water-repellent and transpiring 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 prevents the absorption of rainwater by the masonry and prolongs the life of the plaster.

BENEFITS

- Breathable.
- Water resistant.
- Easy and quick to apply.
- Suitable and ideal for cracked substrates, it avoids reinforced skim coat.
- Highly elastic.
- In combination with thermal plasters (such as *Diathonite Evolution*) maintains excellent thermal comfort.
- It avoids the development of moulds.
- Resistant to UV rays, atmospheric factors, industrial and marine environments.
- Resistant to low and high temperatures.
- Hand-applied lining.
- *External Wall Rendering* effect.
- Made out of natural raw materials and LEED certified.

YIELD

0.90 – 1.20 kg/m^2 in two coats ~ 2 mm of thickness.

0.18 – 0.25 lb/ft^2 in two coats ~ 0.08 in of thickness.

COLOUR

Diasen colour chart.

CONFEZIONE

18 kg (39.68 lb) plastic bucket + 2 kg (4.41 lb) pack of toner.
Pallet: 32 buckets (576 kg–1269.8 lb) + 32 packs of toner (64 kg–141.1 lb).

***Decork Alfareflex* (previously UB1 Colour)**
Ready-to-use 18 kg (39.68 lb) plastic bucket.
Pallet: 32 buckets (576 kg–1269.8 lb).

APPLICATION FIELDS

Product designed for the finishing coating of facades, old and new plasters, thermal plasters such as *Diathonite Evolution* (see technical data sheet), external insulation systems or pitched roofs. It has excellent adhesion capacity on any type of substrate and for this reason it can be used in countless situations: cementitious substrates, plasters, wood or metal. Product suitable for outdoor applications.

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.

DIASEN GREEN BUILDING FUTURE

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The surface must be perfectly levelled, thoroughly clean, dry, free from oils, greases, crumbly and inconsistent parts or other materials that may affect the adhesion of the product. In case of pressure washing, wait for the support to dry completely. In cases where the surface is on the whole friable, completely scarify it until a good support is obtained and restore the lesions or degraded parts with suitable mortar. *Decork Façade* adheres to various types of substrates, it is however recommended to perform a preliminary test to check adhesion and the possible need to use a primer.

Plaster from the *Diathonite* line or new plasters

Make sure that the plaster is well levelled so that the surface remains as smooth as possible; if this is not possible, first apply a coat of suitable *Diasen* smoothing products. Apply the specific fixative *D20* both on smoothing compounds and directly on plasters (see technical data sheet). In case of cracked and micro-cracked substrates, apply the white primer *Color Primer* (see technical data sheet).

Old plaster

Make sure that the plaster is consistent and well adhered to the substrate, otherwise provide for partial or total removal and remaking. In case of painted plasters, given the great variety of paints on the market, it is advisable to perform an adhesion test to verify the suitability of the application or the need to use primers *D20* (see technical data sheet) and/or *Color Primer* (see technical data sheet). On rough plasters, proceed with the direct application of *Decork Façade*, whilst with rough and dusty substrates use the Color *Primer 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 suitable 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 the *Vapostop* 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 Façade*.
Do not apply the product on boards, matchboards or supports with a high number of joints.

Metal

Perfectly clean the surface, eliminating dirt and any loose paint. Before proceeding with the application of *Decork Façade*, 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.

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

MIXING

Open the package and the bag containing the product, and empty the contents of the bag into the bucket.
Add the colour by pouring the entire contents of the package into the bucket.

- Mix the compound with a helical-tip mixer at high speed for at least **2 or 3 minutes** until a homogeneous, lump-free and uniform colour is obtained.
- The product is ready to use and generally should not be diluted. In extremely hot weather conditions, it is possible to add a maximum of 5% water (0.9 L - 0.2 gal of water each 18 kg – 39.6 lb packaging).
- Mix the compound again.
- Never add external components to the compound.

APPLICATION

Application by hand

1. Wait for the complete drying of any primer used.
2. Apply a first generous layer of *Decork Façade* 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.
3. 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. For a better result and a more homogeneous coating it is recommended to cross the layers.
4. Trowel immediately after application with a plastic spatula with rounded edges.
5. Application time: approximately 80/110 m^2 (860.8/1183.6 ft^2) per day

Application by hopper gun DS-Spray Gun

1. Wait for the complete drying of any primer used.
2. The hopper gun must have:
   - minimum compressor pressure 5.0 bar;
   - nozzle diameter 3.0 - 4.0 mm.
3. Apply a first layer of *Decork Façade* with fluid circular 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 Façade* in the same way as previously used until the substrate is completely covered.
5. Do not trowel.
6. Application time: about 200/250 m^2 (2152/2690 ft^2) per day.

Decork Façade can also be applied with the **spraying machine** DS-5500 Texture Sprayer, nozzle diameter 3.00 mm (0.12 in), pressure level 4 (4.0 atm). In this case the application time varies between 700 and 800 m^2 (7532 and 8608 ft^2) per day.

DRYING TIME

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

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- Drying time is influenced by environmental relative humidity and by temperature and it may significantly change.
- Protect *Decork Façade* 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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* The above 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	0.9 – 1.2 kg/m^2 in two coats	kg/m^2
	0.184 – 0.246 lb/ft^2 in two coats	lb/ft^2
Aspect	paste	-
Colour	See colour chart	-
Specific weight	920 ± 20 57.4 ± 1.25	kg/m^3 lb/ft^3
Dilution	If necessary, with max 5% of water *(0.9 l / 0.24 gal U.S per 18 kg / 39.68 lb packaging)*	-
Waiting time between 1st and 2nd coat *(T=23°C/ 73.4°F; R.H. 50%)*	about 8 – 10	hours
Grain size	0 – 1	mm
	0 – 0.04	in
Application temperature	+5 / +35 +41 / +95	°C °F
Drying time *(T=23°C / 73.4°F; R.H. 50%)*	About 10	hours
Storage	12	months
Packaging	18 kg (39.68 lb) plastic bucket ***Decork Alfareflex* (previously UB1 Colour)** 18 kg (39.68 lb) plastic bucket	kg

** 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	2.5	mm	-	-
	0.1	in		
*Weathering Test***	1680 hours *(10 years**)*	hours *years*	ISO 11507	-
Thermal conductivity (λ)	0.057	W/m K	EN 12667	-
Adhesion to self-levelling concrete screed (direct traction)	0.98 – 1.12	N/mm^2	EN ISO 4624	-
	142.2 – 162.4	lbf/in^2	-	-
Adhesion with *D20* to tuff *Adhesion test - pull off*	1.0	N/mm^2	EN ISO 4624	excellent
	145	lbf/in^2	-	-
Bend test (*cylindrical mandrel*)	2.00	mm	ISO 1519	excellent
	0.08	In	-	-

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Theoretical specific heat	1.8	KJ/kg K	-	-
Water vapour permeability	μ = 15	-	EN ISO 7783	-
Permeability to CO_2	Class C1	-	EN 1062-1	-
Permeability to water	Class W2	-	EN 1062-1	-
Transmission of water vapour	Class V3	-	EN 1062-1	-
Gloss	Class G3	-	EN 1062-1	-
Grain size	Class S1	-	EN 1062-1	-
Thickness	Class E5	-	EN 1062-1	-
Crack Bridging	Class A5	-	EN 1062-1	-

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)	ÉMISSIONS DANS L'AIR INTÉRIEUR A+ (A+ A B C)
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)	Pass
	Office scenario	CDPH/EHLB/Standard Method V1.2. (January 2017)	Pass

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