

# DUROCRET-DECO FINISH

## Extra fine-grained microcement coating, for surface finishing on floors and walls

### Description

DUROCRET-DECO FINISH is a pre-mixed, polymer-modified, microcement coating, without corrosive ingredients, suitable for indoor and outdoor applications, on floors and walls, offering:

- A smooth final surface.
- Abrasion resistance.
- Very good bonding to the substrate.
- A special aesthetic result.

It is classified as a PCC R3 mortar for concrete repairs, according to EN 1504-3, as well as a screed material CT-C25-F6-AR2, according to EN 13813.

### Fields of application

DUROCRET-DECO FINISH is used as a microcement coating in numerous applications, such as stairs, floors, walls and special constructions, such as built-in beds, built-in sanitary ware (washbasins, showers etc.). It can be applied both internally and externally, in houses, hotels or wherever a special aesthetic result is desired (e.g. Cycladic architecture).

It is applied in thin layers (1-3 mm), in most cases as a final coating of DUROCRET-DECO and DUROCRET-DECO FLEX, in order to achieve a smooth surface.

### Technical data

Form:	cementitious powder
Colors:	white, grey, light grey
Pot Life:	2 h at +20°C
Water demand:	6.25-6.50 l/25 kg bag
Bulk density of dry mortar:	1.30 ± 0.05 kg/l

Bulk density

of fresh mortar:	1.80 ± 0.10 kg/l
Compressive strength:	≥ 25 N/mm <sup>2</sup>
Flexural strength:	≥ 6.0 N/mm <sup>2</sup>
Chloride ion content:	0.00 %
Adhesion:	≥ 1.8 N/mm <sup>2</sup>
Thermal compatibility Part 1 (50 freeze-thaw cycles):	≥ 1.8 N/mm <sup>2</sup>
Elastic modulus:	≥ 15 GPa
Resistance to carbonization:	Pass
Abrasion resistance:	AR 2
Capillary water absorption:	≤ 0.3 kg·m <sup>-2</sup> ·h <sup>-0.5</sup>
Reaction to fire:	Euroclass F
Application thickness:	1-3 mm per layer

### Directions for use

#### 1. Substrate preparation

The substrate should be clean, free of dust, oily or loose materials etc. Before applying DUROCRET-DECO FINISH on absorbent substrates, such as masonry, concrete or plaster, they should be first primed with the acrylic primer UNI-PRIMER in 1-2 layers, depending on the absorptivity of the substrate. DUROCRET-DECO FINISH is applied after 2-3 hours, depending on the weather conditions, provided that the primer has sufficiently dried.

On gypsum boards, the surface should be first primed with UNI-PRIMER; then, DUROCRET-DECO FLEX should be applied as a base coat, reinforced with 160 g/m<sup>2</sup> fiberglass mesh. 24 hours later, the hardened surface of DUROCRET-DECO FLEX is primed with UNI-PRIMER and while the resin is still fresh (fresh on fresh), DUROCRET-DECO FINISH may be applied.

Non absorbent substrates, such as old tile layers or mosaic should be primed with

# DUROCRET-DECO FINISH

ISOMAT SUPERGRUND primer.  
DUROCRET-DECO FINISH may be applied after 24 hours, as long as the primer has completely dried.

## 2. Application

DUROCRET-DECO FINISH is gradually added to water under continuous stirring, until a mixture of the desired workability is formed. The product is applied with a smooth trowel in a thickness of 1-3 mm in 1 or 2 layers. After it hardens, it can be optionally sanded, depending on the required smoothness of the final surface.

Two or three days after the application - provided that the surface is dry - the protective varnishes may be applied.

## Coloring DUROCRET-DECO FINISH

DUROCRET-DECO FINISH is available in 3 ready-mixed colors (white, grey, light grey). It may also be colored with DECO COLOR high-quality inorganic pigments.

DECO COLOR pigments are available in 10 colors and may be combined to achieve an unlimited number of colors. There are 96 combinations indicatively recommended and presented in DECO COLOR SYSTEM, with a lot more potential tones available to the end user.

In order to achieve better mixing, the pigment should be dissolved in the mixing water, before the mortar is added.

It is also possible to add the pigment after the mortar has been mixed with the water, but in that case, it should be thoroughly mixed, in order to avoid uneven coloring of the mortar.

## Application of the varnish:

The microcement coating is protected with the application of the polyurethane, solvent-based varnish VARNISH-PU 2K (gloss or satin) or the polyurethane, water-based varnish VARNISH-PU 2KW (satin-mat). The

water-based varnish is ideal for interior, poorly ventilated spaces, as it is almost odorless.

VARNISH-PU 2K and VARNISH-PU 2KW are applied with a roller in two layers. The second layer is applied 4-24 hours after the first one, as long as it has sufficiently dried. Consumption: 70-120 g/m<sup>2</sup> per layer.

For better distribution of the varnish, it is recommended to dunk the roller in the varnish until it is soaked, then drain it in the paint tray and apply it on the surface.

VARNISH-PU 2K (gloss or satin) generally darkens the surface. In case this is not desirable, it is recommended to combine two varnishes in the following way:

First, the acrylic, water-based varnish VS-W (diluted with water 1:1) is applied in one layer at a consumption of 150-200 ml/m<sup>2</sup>.

After 24 hours, the polyurethane varnish VARNISH PU-2K (gloss or satin) is applied in 2 layers. The second layer is applied 4-24 hours after the first one, as long as it has sufficiently dried.

The use of VS-W prevents intense darkening of the surface of the microcement coating, caused by VARNISH-PU 2K.

## Consumption

Approx. 1.4 kg/m<sup>2</sup>/mm of layer thickness.

## Packaging

25 kg bags.

## Shelf-life/Storage

12 months from production date, if stored in original, unopened packaging, in places protected from moisture and frost.

# DUROCRET-DECO FINISH

## Remarks

- Instead of UNI-PRIMER, we may use FLEX-PRIMER or ADIFLEX-B resin, diluted with water (1:2).
- Temperature during the application should be between +5°C and +30°C.
- In the summer, it is recommended to take the proper measures in order to protect DUROCRET-DECO FINISH from water loss, due to high temperatures.
- The product contains cement, which reacts with water, forming alkaline solutions, thus is classified as irritant.
- Consult the directions for safe use and precautions written on the package.



### ISOMAT S.A.

17<sup>th</sup> km Thessaloniki – Ag. Athanasios  
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

15

### EN 13813 CT-C25-F6-AR2.

DoP No.: DUROCRET-DECO FINISH

/1218.13813-04

Cementitious screed material for use internally  
in buildings

Reaction to fire: Euroclass F

Release of corrosive substances: CT

Water permeability : NPD

Water vapor permeability: NPD

Compressive strength: C25

Flexural strength: F6

Wear resistance: AR 2

Sound insulation: NPD

Sound absorption: NPD

Thermal resistance: NPD

Chemical resistance: NPD



### ISOMAT S.A.

17<sup>th</sup> km Thessaloniki – Ag. Athanasios  
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

13

### EN 1504-3

Concrete repair product for structural repair PCC  
mortar (based on hydraulic cement, polymer  
modified)

DoP No.: DUROCRET-DECO FINISH/1218.1504-04

Compressive strength: class R3

Chloride ion content:  $\leq 0.05\%$

Adhesion:  $\geq 1,5$  MPa

Carbonation resistance: Pass

Elastic modulus:  $\geq 15$  GPa

Thermal compatibility part 1:  $\geq 1,5$  MPa

Capillary absorption:  $\leq 0.5$  kg·m<sup>-2</sup>·h<sup>-0.5</sup>

Dangerous substances: comply with 5.4

Reaction to fire: Euroclass F

### ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

**Thessaloniki:** 17th km Thessaloniki - Ag. Athanasios

P.O. BOX 1043, 570 03 Ag. Athanasios

Tel.: 2310 576 000 Fax: 2310 722 475

**Athens:** 57th km Athens-Lamia National Road, 32011 Inofita

Tel.: 22620 56 406 Fax: 22620 31 644

[www.isomat.eu](http://www.isomat.eu) e-mail: [info@isomat.eu](mailto:info@isomat.eu)

