Technical Datasheet

DUROCRET-DECO FINISH

Extra fine-grained decorative microcement coating for floors, walls and built-in furniture

Description

DUROCRET-DECO FINISH is a premixed, polymer-modified, decorative microcement coating, without corrosive ingredients, suitable for indoor and outdoor applications, offering:

- Smooth final surface
- Abrasion resistance
- Excellent adhesion to the substrate
- A special aesthetic result

Certified according to EN 1504-3 and EN 13813, classified as a PCC R3 mortar for concrete repair and as a screed material CT-C25-F6-AR2, respectively. CE marked.
DUROCRET-DECO FINISH has received an Environmental Product Declaration (EPD) following an assessment of its life-cycle environmental impacts. Registration No: EPD-IES-0006172, The International EPD® System.

Fields of application

DUROCRET-DECO FINISH is used as a microcement coating in numerous applications, such as stairwells, floors, walls and special constructions, such as built-in beds, built-in sanitary ware (washbasins, showers, etc.). For interior and exterior applications in houses, hotels or wherever a special aesthetic result is desired (e.g. Cycladic architecture).
Applicable in thin layers (1-3 mm), in most cases as a final coating over DUROCRET-DECO and DUROCRET-DECO FLEX, to deliver a smooth surface.

Technical data

Form:	cementitious powder
Colors:	ready-mixed: white, grey, light grey & many more with ISOMAT DECO-COLOR pigments
Pot life:	2 h at +20ºC
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^2
Flexural strength:	≥ 6.0 N/mm^2
Chloride ion content:	0.00 %
Adhesion:	≥ 1.8 N/mm^2
Thermal compatibility Part 1 (50 freeze-thaw cycles):	≥ 1.8 N/mm^2
Elastic modulus:	≥ 15 GPa
Resistance to carbonation:	Pass
Abrasion resistance:	AR 2
Capillary water absorption:	≤ 0.3 kg·m^{-2}·h$^{-0.5}$
Reaction to fire:	A2-s1, d0
Application thickness:	1-3 mm per layer

Directions for use

1. Substrate preparation
The substrate should be clean, free of dust, oil or grease, loose material, etc. Before applying DUROCRET-DECO FINISH to 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 absorbency of the substrate. DUROCRET-DECO FINISH is applied after 2-3 hours, depending on the weather conditions, provided that the primer has sufficiently dried.
Gypsum board surfaces should be first primed with UNI-PRIMER; and then DUROCRET-DECO FLEX should be applied as a base coat, reinforced with 160 g/m^2 fiberglass mesh. Twenty-four hours later, the hardened surface of DUROCRET-DECO FLEX is primed with UNI-PRIMER and while is still fresh DUROCRET-DECO FINISH may be applied (fresh on fresh).
Non-absorbent substrates such as old tile layers or terrazzo should be primed with SUPERGRUND.
DUROCRET-DECO FINISH may be applied 24 h later 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 at a thickness of 1-3 mm in 1 or 2 layers.

DUROCRET-DECO FINISH

After hardening, 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 varnish may be applied.

Coloring of DUROCRET-DECO FINISH
DUROCRET-DECO FINISH is available in three ready-mixed colors (white, grey, light grey). It can also be colored with ISOMAT DECO-COLOR high-quality inorganic pigments.
ISOMAT DECO-COLOR pigments are available in 10 colors and can be combined giving an unlimited number of colors.
For better mixing, the pigment should be dissolved into the mixing water prior to the addition of the mortar.
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 to ensure color consistency throughout mortar mix.
In large-scale applications, it is preferred to first dissolve the pigment into the water.
In addition, the final color, especially if a light one is selected, will be more easily obtained if the mortar to be colored is white.
In case more than 10 doses of 50 g are required per 25 kg of DUROCRET-DECO FINISH, you are advised to contact ISOMAT Technical Support Department.

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-matt).
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^2 per layer.

For better distribution of the varnish, it is recommended to dunk the roller in the varnish until 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 desired, it is recommended to apply two varnishes in the following way:
First, apply the acrylic water-based varnish VS-W (diluted with water 1:1) in one layer, with a consumption of 150-200 ml/m^2.
After 24 hours, apply the polyurethane varnish VARNISH-PU 2K (gloss or satin) in two 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 the intense darkening of the microcement surface caused by VARNISH-PU 2K. Also, the use of VS-W can significantly improve the final surface appearance of the microcement when used diluted with water 1:1, in one layer, prior to the application of VARNISH PU-2KW water-based varnish.

Consumption

Approx. 1.4 kg/m^2/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.

Remarks

- Instead of UNI-PRIMER, FLEX-PRIMER may be used.
- Temperature during the application should be between +5ºC and +30ºC.
- During the summer months, proper measures should be taken to protect DUROCRET-DECO FINISH from water loss caused due to high temperatures.
- The product contains cement, which reacts with water, forming alkaline solutions, thus is classified as irritant.
- Please consult the directions for safe use and precautions written on the packaging before use.

The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore, the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. | Edition: 29.01.2026

DUROCRET-DECO FINISH

CE

ISOMAT S.A.
17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

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EN 13813 CT-C25-F6-AR2

DoP No.: DUROCRET-DECO FINISH /1218.13813-05

Cementitious screed material for use internally in buildings

Reaction to fire: Euroclass A2-s1, d0
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

CE

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ISOMAT S.A.
17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

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2032-CPR-10.11

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: ≤ 0.05%
Adhesive bond: ≥ 1,5 MPa
Carbonation resistance: Pass
Elastic modulus: ≥ 15 GPa
Thermal compatibility part 1: ≥ 1,5 MPa
Capillary absorption: ≤ 0.5 $kg \cdot m^{-2} \cdot h^{-0.5}$
Dangerous substances: comply with 5.4
Reaction to fire: Euroclass A2-s1, d0

ISOMAT S.A.
BUILDING CHEMICALS, MORTARS & PAINTS
HEADQUARTERS – THESSALONIKI, GREECE
17th km Thessaloniki – Ag. Athanasios Road
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece
T +30 2310 576000
www.isomat.eu e-mail: support@isomat.eu

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