

# ISOMAT ACRYL DECO

## Decorative coating for floors and walls

### Description

ISOMAT ACRYL DECO is a pasty, ready-to-use, white or colored, acrylic coating containing aggregates of special particle size, thus being ideal for a very smooth final surface. Suitable for both indoor and outdoor applications, on walls and floors, offering:

- High resistance to abrasion and mechanical load.
- Very good bonding to the substrate.
- Flexibility and resistance to expansion-contraction, as well as to vibration.
- A special aesthetic result.

Certified according to EN 1504-2 and classified as a coating for surface protection of concrete. CE marked.

### Fields of application

ISOMAT ACRYL DECO is used both internally and externally in numerous applications, such as stairs, floors, walls, for aesthetic reasons (e.g. Cycladic architecture), in houses, stores, hotels, etc., as well as for special constructions, such as built-in beds, built-in sanitary ware (washbasins, showers).

Thanks to its flexibility, it is suitable for applications requiring resistance to expansion-contraction, as well as to vibration: substrates made of gypsum or cement boards, underfloor heating floors, attics, metal surfaces, heavy traffic floors, old tile layers, external applications like balconies and flat roofs.

### Technical data

Form:	pasty
Colors:	white and 260 selected colors from ISOMAT COLOR SYSTEM color chart
Application thickness:	0.5 mm per layer
Density:	1.70 ± 0.10 kg/l

Adhesion:	≥ 3.0 N/mm <sup>2</sup>
Abrasion resistance:	AR0.5
Impact resistance:	IR1.7
Hardness (Shore D):	80
Capillary water absorption:	≤ 0.08 kg·m <sup>-2</sup> ·h <sup>-0.5</sup>
Reaction to fire:	Euroclass F

### Directions for use

#### 1. Substrate preparation

The substrate should be dry (moisture content < 4%), free of dust, oily or loose material, etc. Any cavities such as cracks or holes in the substrate should be properly filled.

ISOMAT ACRYL DECO is applied in thin layers; therefore, the substrate must be completely flat.

If the surface is not completely flat and requires a 2-3 mm filling, it is recommended to first apply a basic layer of the flexible cement mortar DUROCRET-DECO FINISH, reinforced with fiberglass mesh.

#### Primers

In case of absorbent substrates, such as masonry, concrete or plaster, they should be first primed with the acrylic primer UNI-PRIMER or FLEX-PRIMER in one or two layers, depending on the absorbency of the substrate.

Non-absorbent substrates, such as old tile layers, should be primed with ISOMAT SUPERGRUND primer.

Difficult surfaces, such as polished marble or metal surfaces, should be scrubbed before the epoxy primer EPOXYPRIMER-500 is applied, diluted with water. The layer, while still fresh, is broadcast with quartz sand (Ø 0.1-0.4 mm or M32 sand).

Consumption of quartz sand: approx. 3 kg/m<sup>2</sup>. After EPOXYPRIMER-500 has hardened, any loose grains should be removed with a high suction vacuum cleaner.

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## Application of DUROCRET-DECO FINISH

First of all, the substrate is primed, as described above. DUROCRET-DECO FINISH is applied 24 hours later, as long as the primer has completely dried.

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 10 mm notched trowel. A 160 g/m<sup>2</sup> reinforcing fiberglass mesh is installed on the “combed” surface of DUROCRET-DECO FINISH, which is then embedded with the smooth side of the trowel, forming a relatively even surface.

Before applying ISOMAT ACRYL DECO, the surface of DUROCRET-DECO FINISH is primed with the acrylic primer UNI-PRIMER or FLEX-PRIMER in one layer. ISOMAT ACRYL DECO is applied as soon as the primer has dried.

## 2. Application

ISOMAT ACRYL DECO is applied with a stainless, smooth, metal trowel in two layers, at a thickness of 0.5 mm each.

One or two days after the application, provided that the surface is dry, the protective varnishes may be applied.

## Application of the varnish:

ISOMAT ACRYL DECO 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, provided that 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.

## Consumption

Approx. 0.8 kg/m<sup>2</sup>/layer.

## Packaging

5 kg and 15 kg plastic containers.

## Shelf life – Storage

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

## Remarks

- Temperature during the application should be between +5°C and +30°C.
- Please consult the safety instructions for written on the packaging before use.

## Volatile Organic Compounds (VOCs)

According to Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory I, type WB is 200 g/l (2010) for the ready-to-use product. The ready-to-use product ISOMAT ACRYL DECO contains a maximum of 200 g/l VOC.

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**EN 1504-02**

DoP No.: ISOMAT ACRYL DECO /1289-01

Surface protection products

Coating

Water vapour permeability: Class I

Capillary absorption:  $w < 0.1 \text{ kg/m}^2 \cdot \text{hr}^{0.5}$

Adhesion strength:  $\geq 2.0 \text{ MPa}$

Reaction to fire: Euroclass F

Dangerous substances: comply with 5.3

**ISOMAT S.A.**

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The technical information and instructions supplied in this data sheet 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 data sheet automatically cancels any previous one concerning the same product.

