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## Decorative floor and wall microcement coating

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DOMOART DECO is a 2-component microcement mortar. It consists of component A: a liquid, high quality resin emulsion and component B: a high strength cementitious mortar, a mixture of cement, selected aggregates, filling agents and special additives. It is used as a decorative coating on horizontal and vertical surfaces, in interior and exterior spaces.

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### Field of application

- Floors and walls of high aesthetics
- special constructions like beds, water basins, shower stalls, stairs, etc

On surfaces like :

- concrete, plasters, gypsum boards, cement boards, old ceramic tiles, marble, mosaics and other after proper preparation

And in places like:

- residences and hotels
- restaurants, cafes, shops, exhibition rooms, shopping centers, etc.

### Advantages

- Perfect aesthetic result
- Excellent workability
- Easy application
- Powerful adhesion on substrate
- High mechanical strength

### System application procedure

#### Substrate preparation:

The application surface must be stable, clean and free of loose materials. Any cement skin, damaged or corrupted substrate must be removed by mechanical means beforehand. Any holes, uneven parts, joints, etc. must be fixed with the repairing mortar **Domorepair** so that the substrate is homogeneous and flat before the application of **Domoart deco**.

The creation of expansion joints on the substrate is considered necessary every 20-25 m<sup>2</sup> in outdoor floors, while a 5-8 mm perimeter joint is recommended indoors. The expansion joints should be filled with the appropriate

materials and should not be covered with the microcement coating.

During application the substrate temperature should be +5°C to +35°C. It is advisable to complete the application outdoors, early in the morning during the summer months, so that the substrate temperature does not exceed +35°C.

#### Substrate Primers :

Irrespective of the substrate type, it is necessary to use a suitable primer to seal its pores and improve adhesion:

#### Horizontal surfaces - Floors

A) On stable and healthy floors, the epoxy primer, **Serital W Primer (A+B)**, is applied. Its consumption is 120-220 gr/m<sup>2</sup> depending on the substrate.

B) In special cases such as floors that are susceptible to cracks or interfaces of different materials (such as old tiles, marble, wooden floors), the **3 component epoxy mortar, Serital W cement**, is applied at a ratio of 1(A + B): 0.8C by weight, with a 160 gr/m<sup>2</sup> fiberglass reinforcement, in order to receive shifts or deformations of the substrate and finally to avoid cracks. Its consumption is 2-2,5 kg/m<sup>2</sup>.

#### Vertical surfaces- Walls

On absorbent and non-absorbent masonry surfaces such as concrete, plasters, plasterboards, cementboards, etc. and in places like baths and kitchens with old layers of tiles, marble, etc, the quartz

primer **Domosand Primer**, is applied. Its consumption is 300-350 gr/m<sup>2</sup> per layer.

### **Places with humidity**

In places where moisture may occur (eg kitchens, bathrooms, etc.), after the application of the above primer, the substrate waterproofing should be obtained with the use of flexible mortar **Domolastic A+B**, reinforced with the fiberglass net of 60 gr/m<sup>2</sup>, and consumption 1.3–1.6 kg/m<sup>2</sup> for a layer thickness of 1 mm.

**Note:** More information about the products Domorepair, Serital Primer W (A+B), Serital W Cement, Domosand Primer and Domolastic A+B, you will find in their TDS.

### **Instructions for the application of the system**

#### **Product Mixing:**

Empty ¾ of the liquid in a clean pail and add while stirring, the pigments until they are homogeneously mixed. Empty the rest of the liquid in the pail of the pigments and then to the large pail so that there are no color losses. Then, add the powder gradually while mixing with a low speed agitator, so, that no air is introduced into the mortar. Mix at least 5 minutes until it becomes a homogeneous final product (without lumps). Leave for 5 minutes to mature and stir again for 1 minute before the application.

#### **Application method :**

The very well mixed mortar is applied as a first layer to the prepared substrate with a notched trowel of 6-10 mm. The smooth side of the trowel is used to embed the fiberglass reinforcement of 160 gr/m<sup>2</sup>. The layer thickness obtained is 1-2 mm.

In order to acquire the desired aesthetic result, the microcement coating is proposed to be applied in three layers, one with **Domoart Deco** and two with **Domoart Deco Fine**. The second and the third layer is applied with a straight edge, smooth trowel of 60 cm width, in a thickness of 1mm.

The drying time between two layers should be approximately 24h (depending on the environmental conditions).

**Domoart Deco Primer**, diluted with water at a ratio of 1:3 per weight and consumption 40-50 gr/m<sup>2</sup> per layer, is applied between the microcement coatings, in order to optimize the application of each next layer.

**The next day**, the final coat is recommended to be sanded by a pulse sander (use a fine grain 100-120) to achieve a smooth surface and the appearance of the technique.

#### **Protection of the final surface**

After 2-3 days and under normal ambient conditions, the final surface is cleaned from dust and rubbish.

Before applying the two component aliphatic polyurethane varnish, **Domodur Sealer PU 2K Mat**, **Domoart Deco Primer**, diluted with water at a ratio of 1:3 per weight, is applied so that the final surface remains color unchanged. **Domodur Sealer PU 2K Mat** is applied at least two hours later and its consumption is 120-150 gr/m<sup>2</sup> for 2 layers.

It should be pointed out that the layers of varnish should be protected from dust and rubbish so that the final surface does not trap dirt. The final surface can be stressed after 7 days.

#### **Additional information:**

- Application should be performed **by expert workers**
- Protect the freshly applied coating from direct sun exposure, wind, rain and frost.

### **Consumption**

Depends on the roughness of the substrate and the application thickness.

**Indicative** 1,7 kg/m<sup>2</sup>/mm **or**

- 1st layer with fiberglass: 2 – 2,5 kg / m<sup>2</sup>
- 2nd layer: 1.3 - 1.5 kg / m<sup>2</sup>
- 3rd layer: 0.8 - 1 kg / m<sup>2</sup>

### **Storage**

Component A: At least 12 months from production date in the original pail in a cool, dry place protected from direct sun exposure and frost.

Component B: At least 12 months from production date a cool, dry place protected from excessive humidity.

### **Packaging**

Component A (liquid): can of 3.5 kg

Component B (powder): pail of 13 kg which includes the **pigments** depending on the **desired color**

## Colors

Available in white, light grey, grey, anthracite, beige, olive green, puce. Other colors available on request.

## Volatile Organic Compounds (VOC)

EU REGULATION 2004/42: According to Directive 2004/42/EU (Annex II, Table A), the maximum allowed content of VOC (Product Category i / Type WB) is 140 g/L (limits of 2010) for the final product. The final DOMOART DECO contains max <140 g/L.

## Specifications

Form	Liquid (A) Powder (B)
Color	White, Light Grey, Grey, Anthracite, Beige, Olive Green, Puce
Specific weight	A: 1.00 ± 0.03 kg/L (23°C)
Bulk density	B: 1.20 ± 0.04 g/cm <sup>3</sup> (23°C)
Mixing ratio	A : B 1 : 3.7 w/w
Specific weight of mix	1.70 ± 0.05 kg/L (23°C)
Application temperature	+5°C to +35°C
Pot life	2 hours (23°C)
Walk ability	1 day (23°C)
Sander grinding	After 24h (23°C)
Full hardening	7 days (20°C)
Compression strength	25,4 N/mm <sup>2</sup>
Flexural Strength	7,2 N/mm <sup>2</sup>
Adhesion on concrete	1,71 N/mm <sup>2</sup>

All the technical data stated in the present Technical Data Sheet are based on laboratory tests and the knowledge and experience of the company. Different conditions may apply at field applications that are beyond the control of the company. Therefore, the end user is ultimately responsible to make sure that the product is suitable for the application in question and to know the real conditions of the project.

**Domissima** 

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