MARMOLINE
ADVANCED BUILDING MATERIALS

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VELVET DECO SUPERIA

Extra fine microcement

EN 998-1
GP/CSIV/W_c

EN 13813
CT-C7-F3

DESCRIPTION

MARMOLINE VELVET DECO SUPERIA is a system of ready-to-use polymer modified mortars, based on high-strength white cement. It contains specially selected aggregates and special additives to achieve resistance to abrasion.

The system consists of the following materials:

- **1 FLEX**: Mortar for base layer
- **2 RESIN**: Dispersion
- **3 FINISH**: Mortar for finishing layer

It is produced in white colour, while by using **MARMOLINE POWDER COLOUR** natural colour pigment, it can get plenty of colour shades.

FIELDS OF APPLICATION

MARMOLINE VELVET DECO SUPERIA system is used for the aesthetic renovation of interior or exterior surfaces, walls and floors.

The system's special characteristics are:
- Particularly smooth finish
- High flexibility
- Varnish application in a short time

MARMOLINE VELVET DECO SUPERIA is used for the aesthetic renovation of interior or exterior surfaces, walls and floors. Suitable to use on smooth concrete surfaces and old surfaces made of old tiles, old mosaics, old coats of marbles, with the appropriate preparation depending on the substrate, combined with the **MARMOLINE PRO CONTACT** quartz primer. Multiple applications - in fact endless applications in theory - are possible, depending on the aesthetic standards of the architect and the decorator. It can be applied in stores and residences indoors and outdoors, in bathrooms, kitchens, showers, on staircases, built-in beds, etc

CHARACTERISTICS/ADVANTAGES

- Ready to use
- Stable quality
- very good workability
- Perfect aesthetic result
- Particularly smooth final surface
- Strong adhesion to the substrate
- High compressive, flexural and abrasion resistance
- It does not crack

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PRODUCT INFORMATION

Composition	Powder: White cement modified with polymers, specially selected aggregates and additives Liquid: Acrylic based liquid
Appearance/Colour	White powder (FLEX – FINISH) and transparent liquid (RESIN)
Packaging	FLEX: 25 kg paper bags (1500 kg pallet – 60 bags) 5 kg plastic bags (960 kg pallet – 48 cartons) RESIN: 5 kg plastic containers (480 kg pallet – 60 cartons) FINISH: 20 kg paper bags (1080 kg pallet– 54 bags) 5 kg plastic bags (960 kg pallet– 48 cartons)
Storage conditions	Store in the original, closed, sealed packaging, protected from direct sunlight and frost and at temperatures from +5°C to +35°C
Shelf life	12 months from date of manufacture

TECHNICAL CHARACTERISTICS

CE 18 DoP: 082a MARMO-CPR	CE 18 DoP: 082b MARMO-CPR
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens/ Greece	NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens/ Greece
EN 998-1:2016 MARMOLINE VELVET DECO SUPERIA - FLEX General purpose plaster (GP/CSIV/W_c2)	EN 13813:2002 MARMOLINE VELVET DECO SUPERIA - FLEX Floor screed (CT-C7-F3)
Reaction to fire: Class A1 Water absorption: W_c 2 Water vapour diffusion coef. μ: 17 Adhesion: ≥ 2 (FPb) Thermal conductivity/density ($\lambda_{10,dry}$): 0.31 (P= 50%) Durability (against freeze/thaw, in the intended place of use): *Evaluated as excellent, after laboratory and field tests* Dangerous substances: See product's SDS	Reaction to fire: $A1_{fl}$ Release of corrosive substances: CT Compressive strength: C7 Flexural strength: F3

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CE 18 DoP: 083a MARMO-CPR
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens/ Greece
EN 998-1:2016 MARMOLINE VELVET DECO SUPERIA - FINISH General purpose plaster (GP/CSIV/ W_c1)
Reaction to fire: Class A1 Water absorption: W_c1 Water vapour diffusion coef. μ: 7 Adhesion: $\geq$ 2 (FPb) Thermal conductivity/density ($\lambda_{10,dry}$): 0.33 (P= 50%) Durability (against freeze/thaw, in the intended place of use): *Evaluated as excellent, after laboratory and field tests* Dangerous substances: see product's SDS

CE 18 DoP: 083b MARMO-CPR
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens/ Greece
EN 13813:2002 MARMOLINE VELVET DECO SUPERIA - FINISH Cement floor screed (CT-C7-F3)
Reaction to fire: $A1_{fl}$ Release of corrosive substances: CT Compressive strength: C7 Flexural strength: F3 *Wear resistance Böhme(*) of final surface, coated with MARMOLINE VELVET LIQUID P.U. varnish: A3* *with MARMOLINE VELVET LIQUID S varnish: A6*

(*): The determination of abrasion resistance was made according to EN 14157 (Method A, Wide wheel abrasion test). For the conversion of the results, from method A (wide wheel abrasion test - WWA) to method B (Böhme abrasion test - BA), the following formula was used: WWA=1,711BA+15,32 (Annex A §A.3 of EN 14157)

APPLICATION INFORMATION

Substrate temperature	+5°C / +35°C
Ambient temperature	+5°C / +35°C
Mixing ratio	**FLEX**: 6-7 kg of water/ bag of 25 kg **FINISH**: 8 kg of water / bag of 20 kg In both cases, up to 30% of water can be replaced with dispersion (**RESIN)** to give the product extra strength and flexibility.
Consumption	**FLEX**: Approx. 1.25 kg /m^2 per mm of layer *(total thickness up to 3 mm, using a 6 mm notched trowel)* **FINISH**: Approx. 0.6 kg /m^2 per layer

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DIRECTIONS OF USE

SUBSTRATE PREPARATION

- The substrate should be properly prepared (thoroughly dry, sufficiently stable and free of dust, grease, loose materials etc.).
- When necessary (and always if it is to be applied outdoors), the system's application should be preceded by proper waterproofing /sealing of the substrate.
- If the substrate is rough and not sufficiently flat, it should be smoothed by using **MARMOLINE FLOW SL 500** self-levelling floor screed.
- When the substrate area is large (>25m^2), it is necessary to provide for suitable expansion joints. Also when the substrate consists of different materials (proper joints should be provided at the connection points)
- Before applying the base coat of **MARMOLINE VELVET DECO SUPERIA** in any well-prepared substrate, it is necessary to prime the substrate using **MARMOLINE PRO CONTACT** quartz adhesion primer. Apply the FLEX base coat mortar once the primer has dried (after at least 2 hours). Primer consumption: 200 - 300 gr/m^2

MIXING

For the **colouring** of the base mortar (FLEX) and finishing layer mortar (FINISH) use the **MARMOLINE POWDER COLOUR** natural pigments. The pigments should first be dissolved into the amount of pure water which is to be used for mixing with the dry mortars. For the proper amount of pigment consult POWDER COLOUR instructions for use. Mix the dry mortar powder gradually, with the necessary quantity of coloured water, using a low speed mixer, to attain a homogeneous mass without lumps and with the desirable workability. The base coat mortar (FLEX) does not need to be coloured unless it is necessary for the final color effect.

APPLICATION

- **Creation of base layer**: On horizontal or vertical surfaces apply the first layer with the material **FLEX,** using a 6 mm notched trowel, while incorporating the 80 gr/m^2 (or 160 gr/m^2) fiberglass mesh offered by MARMOLINE. For curved surfaces it is suggested to use the 60 gr/m^{2}fiberglass mesh. The fiberglass mesh should be laid on the applied mixture when this is still fresh, and then immersed therein with a smooth trowel. Make sure that the fiberglass mesh strips cover each other by 10 cm. Good pressing of the applied mixture is necessary so that no air remains entrapped.
- The material **FINISH** is used as second layer, in grain size thickness, to fully cover the fiberglass mesh, after applying the FLEX. Between two layers, it is recommended to apply **MARMOLINE MST 22** primer. Apply the primer when the surface has hardened, and after having rubbed it with a fine sandpaper and then wiped it
- For the formation of the final surface the **FINISH** material should be applied in one or two more layers, in grain size thickness.
- On each layer, when this is still fresh, pressing of the material should be applied. Pressing of the final layer produces the "shadow effects" that characterize this kind of decorative surface

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- After the final surface has hardened and depending on the desired final effect, it can be rubbed with fine sandpaper for smoothing
- Before applying a protective varnish, the surface should be thoroughly dry. Using a suitable moisture-meter check that moisture is less than 5%, or else problems may occur in application.
- After the surface has thoroughly dried, dry clean it with a vacuum cleaner, to remove any dirt and apply either **MARMOLINE VELVET LIQUID S**, or **MARMOLINE VELVET LIQUID P.U.** varnish, according to your choice
- Before applying VELVET LIQUID S varnish, it is necessary to apply the transparent water based primer **MARMOLINE VELVET PRIMER**
- Before applying VELVET LIQUID P.U. it is recommended to apply the transparent silicone sealant **MARMOLINE MS 33.** Attention: The application of P.U. varnish darkens the final shade of the surface. By applying MS 33 this phenomenon is reduced significantly. In any case it is suggested to experiment in a small area and evaluate the results before applying across the whole surface.

TOOLS CLEANING

Fresh material should be removed from the equipment with water immediately after application. Hardened/mature material can only be removed by mechanical means.

IMPORTANT NOTICE

- The content of the bags should be protected from humidity.
- It is not recommended to use the products in extreme weather conditions (frost or heatwave). Application temperature +5°C to +35°C

ATTENTION: *To achieve the aesthetically desirable result, the system should be applied by technicians who have sufficient experience in the implementation of such products as well as specifically in MARMOLINE VELVET DECO SUPERIA. We guarantee the technical specifications of the product, as described in its Declaration of Performance and Technical Data Sheet. We cannot assure the final result, since the site conditions during the applications are beyond the control of our company. It is the user's responsibility to test the material in small scale, before application, so that to be sure about the final result*

COMPLIANCE WITH STANDARDS

CE marking and Declaration of Performance based on standards EN 998-1 (Rendering and plastering mortar) and EN 13813 (screed material).

EUROFINS - Indoor Air Comfort Gold certification which ensures that the product meets the strictest European regulations regarding VOC emissions

HEALTH, SAFETY & ENVIROMENTAL PROTECTION

Detailed information and instructions regarding the safe management of the products and in matters of Health & Safety, are provided in the most recent Safety Data Sheets (SDS), copies of which are available on the company's website https://marmoline.gr/ or upon request.

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LEGAL NOTICE

We guarantee the quality of all our products, based on their technical specifications, as described in the Declaration of Performance (CE) and this Technical Data Sheet. Such guarantee refers only to the products that we deliver for use and never to its application or final result, which largely depends on the experience and quality of work of each user and on the application conditions. The user is advised to test the product on a small scale, and if he is satisfied with the result, then to use the product on large scale in his project. All data stated in this Technical Data Sheet are based on laboratory tests. The really measurable data might differentiate due to conditions that are not subject to our control. The recommendations and implementation instructions must be considered by the user as indicative, and always with given that the product has been traded and traded and stored according to its instructions. As it is not possible to control the parameters/conditions of its application product in practice, no guarantee is provided for the final result of each application. Consequently, no legal liability of the Company can be established based on the information and instruction given in this Technical Data Sheet. The Company reserves the right to modify data listed in this Product Data Sheet, with no previous warning. Users must refer to the latest version of the product Technical Data Sheet.