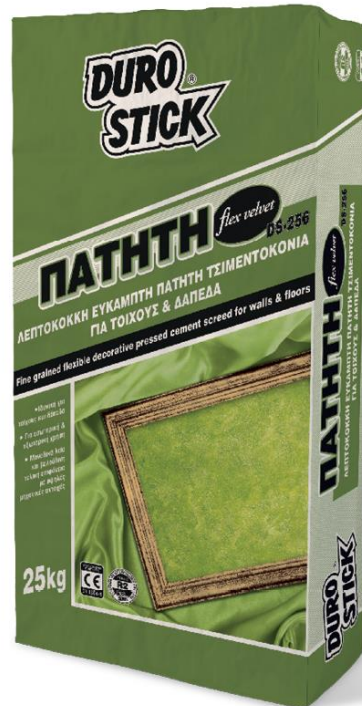


DUROSTICK DS-256 FLEX VELVET



Fine grained flexible decorative microcement for walls and floors



PROPERTIES

A ready, fine-grained, flexible, cement mortar available in white or in a variety of shades. The ideal technological combination of polymeric resins, aggregates and high-strength cement creates a unique smooth surface, of high mechanical strength. Prepare the flexible, decorative pressed cement screed, DS-256 FLEX VELVET just by adding water. Apply a single coat with a trowel to create exceptionally silky-smooth texture surfaces, and decorate spaces with personality, unique aesthetics, as well as slim and elegant lines. It is painted in its mass (*) by the addition of water-soluble pigments DUROCOLOR POWDER-C in powder form available in 96 shades or by broadcasting and work the pigments on its surface. Create unique, personalized styles on the surface by using the cementitious GROUTS of DUROSTICK, available in 38 colors or the color syringes of DUROCOLOR coloring system of DUROSTICK.

Classified PCC R3, per EN 1504- 3, and as floor screed material is classified CT-C25-F7-AR2, per EN 13813.

APPLICATIONS

DS-256 FLEX VELVET applies on properly prepared surfaces and is suitable to be used on floors and walls, in both interior and exterior applications. Due to its velvety texture and small grain size, its application is suitable on surfaces made of gypsum board and cement board that are already primed with AQUAFIX, as well as on sound marble based plaster surfaces. Perfectly suitable for applications over sound, level surfaces of traditional cement screeds, self levelling mortars but also over properly prepared surfaces with DS-250 or DS-252 FLEX microcements of DUROSTICK. Prepare surfaces such as wood lofts, as well as existing mosaic, marble and tiles, using either one of the quartz based primers, DS-255 or DS-290 of DUROSTICK. Follow by applying either microcement DS-250 or DS-252 FLEX, depending on the requirements of the project and the final use. Encase the alkali resistant, fiberglass mesh DS-4160, as described in detail in the 'USE' section of the respective products. Finally, apply DS-256 FLEX VELVET in one

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coat, to create its signature velvety and super smooth texture.

USE

1. Surface preparation

The substrate must be sound, free from dust, oils, all loose materials and it should be well soaked evenly before the application. Alternatively, the use AQUAFIX, the micromolar stabilizer (primer) of DUROSTICK is recommended. Its use will stabilize the substrate and increases its waterproofing. In addition, it ensures the uniform progression of your color selections. It is imperative to create expansion joints on all exterior floor application, every 25-30m² and every 50m² for interior ones. It is also necessary to create perimeter joints; 8-10mm wide all around the flooring surface for both interior and exterior applications.

2. Application

Cover all surrounding surfaces to protect them from unnecessary stains. Empty 25kg of the microcement (1 bag) into 5.5-6.0lt of cool, clear water. Using a clean cement mixer or a low-rpm drill, mix until a lump-free cohesive, homogeneous paste is created. Allow for the mixture to mature for 5-10 minutes and mix periodically during use. Soak the substrate that will be coated immediately well with clean water and apply the product using a gauging trowel. Use a notched trowel to 'comb' the mortar onto the substrate to a thickness of no more than 3mm per coat. Press the 'combed' product to even it out and to eliminate any trapped air bubbles so they do not create dimples on the surface. Allow the product to mature for about 30 minutes. Use a wide, flat trowel and begin 'pressing' the surface of the microcement in different directions until the desired aesthetic, styling result is achieved. Use the appropriate trowel, based on style and craftsman, to smooth and perfect the final surface. DS-256 FLEX VELVET rewards craftsman's skills and quickly highlights its 'waters'. Broadcast the ultrafine, decorative metal pigments in gold, silver, and copper LUSSO D'ORO and create patinas, adding a dramatic touch of luxury and luster. After 3-6 days (depending on the ambient conditions) and once the product has cured and thor-

oughly dried, it is time to enhance its surface protection. For interior vertical surfaces use the matte finish varnish DECOFIN AQUA of DUROSTICK. For interior and exterior surfaces, the use of the acrylic, solvent-based varnish VISTA is recommended. On floor surfaces and areas with increased mechanical stresses, the use of the two-component, polyurethane based varnish DECOFIN POLYURETHANE or the two-component water soluble polyurethane-based matte varnish, DECOFIN AQUA PU, (since it is odorless, it is idea for interior spaces that are not adequately ventilated), are both highly recommended. For interior surfaces with increased hygiene requirements, the use of either the two-component, epoxy-based and gloss finish varnish DECOFIN EPOXY SF or the two-component, epoxy based and satin finish DECOFIN EPOXY AQUA are both highly recommended as well. To maintain and protect the selected color and not alter/darken it from the varnish application, it is recommended to apply the micromolar primer AQUAFIX of DUROSTICK, before applying the protection varnish.

USEFUL TIPS

- Avoid product application when ambient temperatures are lower than 5°C and higher than 35°C.
- During summer months, the finish surface has to be protected from intense sunlight. For the next 24 hours after the application of the product soak the finish surface once or twice, as needed to avoid premature dehydration.
- Clean the decorative pressed cement screed surface with mild household cleaning detergents. Cleaning can be significantly facilitated when the surface is protected with one of the special varnishes or waterproofing products of DUROSTICK.

NOTES

- To be absolutely sure of the aesthetic result and the degree of the influence the applied varnish will have on the microcement color, one can consult the MICROCEMENT FAN DECK that is located in the stores that sell the specific products.

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- The curing times refer to ambient conditions with a temperature of 23°C and 50% relative humidity. Those times also depend on the nature of the substrate and the thickness of the microcement coat.

- Applications where the levels of humidity are elevated and the temperature remains low, the varnish application should be done after 7 days.

(*) Coloring the microcement throughout its mass using DUROCOLOR POWDER-C: Select one of the 96 color chart colors. Empty the required amount of pigments into a clean container with 5.5-6.0lt of clean, potable water. Mix well using a low-rpm drill. Add the white microcement and continue to mix until a fully homogenized colored mixture is created. • Quantities over 250kg that can line approximately 60m² can be delivered factory colored (special order) in any available color from the DUROCOLOR POWDER-C color chart.

CLEANING

Clean all tools with water, immediately after use.

CONSUMPTION

4-4.3kg/m² per 3mm thick coat.

STORAGE

Store in the factory sealed packages, in dry and shaded places for at least 12 months from production date.

SAFETY DIRECTIONS

The product contains Portland cement. Before use, refer to the cautions on the product packaging or the Material Safety Data Sheet.

PACKAGING

Paper bag of 25kg on 1,500kg pallet

TECHNICAL SPECIFICATIONS <i>(Measurement conditions 20°C and 50% R.H.)</i>	
Form - Color	Cementitious mortar - White
Colors	11 permanent colors and 96 selected colors, based on the DUROCOLOR POWDER-C color chart
Toxic	No
Bulk density of dry mortar	1.20±0.05kg/lt
Bulk density of fresh mortar	1.70±0.05kg/lt
Maximum grain size	600µm
Water requirement	5.5lt water in 25kg mortar
Application temperature	From +5°C to +35°C
Temperature resistance	From -35°C to +90°C
Pot life	2 hours
Maximum application thickness	2-3mm/coat for walls, 3-5mm/coat for floors
Application of protective coating or water-proofing	After 3 to 6 days
Foot traffic	After 8 hours
Sanding with equipment	After 24 hours (if necessary)
Resistance to:	
•Ageing	Excellent
•Acids	Excellent (when pH > 3)
•Alkalis	Excellent
Chlorides content per EN 1015-17	≤ 0.05%
PRODUCT PERFORMANCE	
Strength after 28 days, per EN 12190 & EN 13892-2 to:	
•flexion	≥ 6.50 N/mm ²
•compression	≥ 26.00 N/mm ²
Adhesion to concrete, per EN 1542	≥ 1.80 N/mm ²
Modulus of elasticity, per EN 13412	≥ 15.0 GPa
Thermal compatibility expressed as adhesion to concrete, per EN 13687, after:	
•50 freeze-thaw cycles •30 Storm cycles •30 Dry heat cycles	≥ 1.50 N/mm ²
Capillary water absorption w, per EN 13057	w ≤ 0.30kg.m-2.h-0,5
Abrasion resistance BCA, per EN 13892-4	220±20µm

The technical specifications and directions of use contained in this technical brochure are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.

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Reaction to fire, per EN 13501-1	Euroclass F
Where 1N/mm ² =1MPa	

12 colors



CE

DUROSTICK S.A.
ASPROPYRGOS ATHENS PC:193 00
GREECE 17

EN 13813
CT-CT25-F7-AR2
DUROSTICK DS-256 FLEX VELVET
DoP No.: 136
Cementitious screed material for use internally in buildings

Reaction to fire: Euroclass F
Release of corrosive substances: CT
Water permeability: NPD
Water vapour permeability: NPD
Compressive strength: C25
Flexural strength: F7
Wear resistance, BCA: AR2
Sound insulation/ Sound absorption: NPD
Thermal resistance/chemical resistance: NPD

CE

DUROSTICK S.A.
ASPROPYRGOS ATHENS PC:193 00
GREECE 15

EN 1504 - 3
DUROSTICK DS-256 FLEX VELVET
DoP No.: 101
Concrete repair product for non structural repair
PCC mortar (based on hydraulic cement, polymer modified)

Compressive strength: class R3
Chloride ion content: 0,05%
Adhesive Bond: 1.5 MPa
Carbonation resistance: Passes
Elastic Modulus: 15 GPa
Thermal compatibility part 1: 1.5 MPa
Capillary absorption: 0,5 kg·m⁻²·h^{0,5}
Dangerous substances: comply with 5.4
Reaction to fire: Euroclass F

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