

5.1 Products for installation, protection & decoration of stone and pressed cement screeds

DUROSTICK DS-256 FLEX VELVET Fine grained flexible decorative pressed cement screed for walls & floors



Color it
in **96 colors**
with the pigments
in powder form
DUROCOLOR POWDER-C



Create
exceptional styles



TECHNICAL SPECIFICATIONS (Measurement conditions 20 °C and 50% R.H.)

Form	Cementitious mortar - White
Colors	7 permanent colors and 96 selected colors, based on the DUROCOLOR POWDER-C color chart
Toxic	No
Bulk density of dry mortar	1.20 ± 0.05 kg/lit
Bulk density of fresh mortar	1.70 ± 0.05 kg/lit
Maximum grain size	600 µm
Water requirement	5.5 lit in 25 kg 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 mm-3 mm/coat for walls, 3-5 mm/coat for floors
Application of protective coating or waterproofing	After 3 to 6 days
Foot traffic	After 8 hours
Sanding with equipment	After 24 hours
Resistance to:	
• Ageing	Excellent
• Acids	Excellent (when pH > 3)
• Alkalis	Excellent
Chlorides content per EN 1015-17	<0.05%

MECHANICAL STRENGTHS

Strength after 28 days, per EN 12190 & EN 13892-2 to:	
• flexion	≥ 6.50 N/mm ²
• compression	≥ 26.00 N/mm ²
Adhesive strength after 28 days, per:	
• EN 1542 & EN 13892-8	≥ 1.80 N/mm ²
Modulus of elasticity, per EN 13412	≥ 15.00 GPa
Adhesion after 50 freeze-thaw cycles, per EN 13687-1:	≥ 1.50 N/mm ²
Capillary water absorption w, per EN 13057:	w ≤ 0.30 kg/m ² .h ^{0.5}
Abrasion resistance BCA, per EN 13892-4	220 ± 20 µm

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

PROPERTIES

Ready mixed, fine grain mortar, with exceptionally high mechanical strengths, ideal for wall and floor applications, both indoors and out. Available in white color, with the ability to be colored in a multitude of colors.

The ideal technological combination of polymeric resins, aggregates and high strength, and quality, cement create an exceptionally smooth surface that does not crack.

Prepare the flexible, decorative pressed cement screed, DS-256 FLEX VELVET of DUROSTICK just by adding water. Apply a single coat with a trowel to create exceptionally silky smooth texture surfaces, and yield spaces with personality, unique aesthetics, as well as slim and elegant lines.

Add DUROCOLOR POWDER-C, the water soluble pigments coated with vinyl resins available in powder form.

They will color the product throughout its mass (alternatively, broadcast the pigments onto the surface), thus creating 96 permanent colors.

As another means of coloring of DS-256 FLEX VELVET use the cementitious GROUTS of DUROSTICK, available in 32 colors, or the color syringes of DUROCOLOR coloring system of DUROSTICK, to create your own personalized, one-of-a-kind style on the surface of the pressed cement screed.

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

APPLICATIONS

DS-256 FLEX VELVET, the flexible, decorative pressed cement screed applies on properly prepared surfaces, both indoors and out, on walls and floors alike. Due to its velvety smooth texture and grain size, its application is suitable on surfaces made of drywall (pic.3) and cement board (that are already primed with AQUAFIX), as well as on sound marble based plaster surfaces (pic.1). Perfectly suitable for applications over sound, level surfaces of traditional cement screeds, self levelling mortars but also over properly prepared surfaces with the use of the pressed cement screeds, DS-250 or DS-252 FLEX of DUROSTICK (pic.2).

Prepare surfaces such as wood lofts, as well as existing mosaic, marble and tiles, using either one of the quartz based acrylic primers, DS-255 or DS-290 of DUROSTICK.

Follow by applying either pressed cement screed, DS-250 or DS-252 FLEX, depending on the requirements of the

project and the final use. Encase the alkalis 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 coat, to create its signature velvety and super smooth texture, despite its cementitious nature.

USE

1. Surface preparation

The substrate must be sound and well soaked, free from dust, oils and all loose materials.

Thoroughly soak all surfaces before application. Alternatively, the use of the micromolar stabilizing primer, AQUAFIX of DUROSTICK is highly recommended. It will ensure stability, even development of the color choices and it will increase the waterproofing of the substrate.

It is imperative to create expansion joints for all outdoor floor applications, on every 25-30m² and for all indoor floor applications on every 50m². Indoors it is also necessary to create a perimeter floor joint of 8-10mm width throughout the application surface.

2. Application

Protect the surroundings by covering objects and surfaces to prevent soiling and possible staining. Empty 25kg of DS-256 FLEX VELVET into 5.5-6.0lit clean, cool water. Mix with low rpm electric mixing drill or mortar mixer to create a lump free, homogeneous mass. Allow for the mixture to mature for 5-10 minutes and while occasional mixing is recommended, do so without adding any water. Soak with clean, cool water as much surface (concrete or sidewalk slabs) as it can be coated within the next few minutes with the pressed cement screed. Use a gauging trowel to apply the mortar onto the substrate. 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 DS-256 FLEX VELVET, 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 will 'reward' the craftsmanship and effort that will go in its making and it will reveal its unique style, veins and ultimate beauty. Broadcast the ul-

trafine, 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 ambient conditions) and after the material has cured and has dried thoroughly, come to strengthen protection of the surface.

The use of the solvent base, acrylic varnish with matte finish, VISTA, both indoors and out is highly recommended. The use of the two component, polyurethane based varnish with matte finish, DECOFIN POLYURETHANE is highly recommended for outdoor surfaces subject to increased mechanical or thermal stresses. The use of the two component, epoxy varnish with gloss finish, DECOFIN EPOXY SF is highly recommended for indoor surfaces in which hygiene

being the top requirement and priority. For indoor vertical surfaces use the matte finish varnish DECOFIN AQUA.

NOTES

- All cure times indicated above, refer to ambient conditions with a temperature of 23 °C and relative humidity around 50%. They also depend on the nature of the substrate and the coat thickness of the material.
- In cases where strong moisture and/or humidity are present or even low temperatures, the varnish application should be performed after 7 days (from the pressed cement screed installation).
- The application of the varnish will affect the final color of the product - even when working with lighter colors. Complete a small sample

of the product and apply the varnish to be absolutely sure on how the varnish will affect the final product.

- Quantities of 1,800kg 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

4.0-4.3kg/m² per 3mm thick coat.

STORAGE

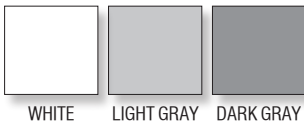
Store in the factory sealed packages, in dry and shaded places for at least 12 months from production date.

HELPFUL TIPS

- Avoid application when temperatures are below 5 °C and above 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 to avoid premature dehydration.

8 colors

AVAILABLE



WHITE LIGHT GRAY DARK GRAY

Discrepancies between color chart colors and the final result are due to shortcomings in the printing process. Discrepancy may occur due to the application method, the 'pressing' of the product and desired style

SPECIAL ORDER



ICE SUN RAY ALABASTER PISTACHIO AQUA MARINE



pic. 1



pic. 2



pic. 3

TABLE OF MATERIAL COST per m²

Product	Consumption	Layers	Cost
Decorative cement screed DS-256 FLEX VELVET	4.0-4.3 kg	1	7.00 €
Acrylic varnish VISTA*	250gr	2	3.78 €
DUROCOLOR POWDER - C	depending on the color	-	0,70 €
TOTAL			11.48 €/m²

Possible additional cost per m²

Quartz acrylic primer DS-255	300-350 gr	1	1.00 €
TOTAL			12.48 €/m²

Labor costs are not included in the above prices and they must be added in the above amounts.

* Alternatively, use the acrylic varnish DECOFIN AQUA with indicative material cost of 3.00 €/m²