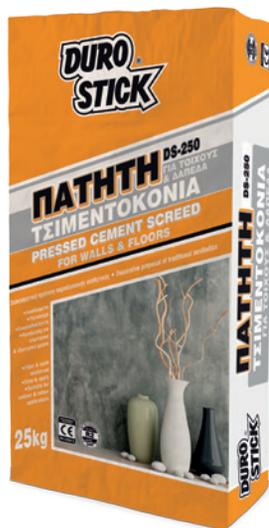


DUROSTICK DS-250 Pressed cement screed for walls and floors



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	1.45 ± 0.05 kg/lt
Bulk density of fresh mortar	1.90 ± 0.05 kg/lt
Maximum grain size	1.30 mm
Water requirement	5.0 lt in 25 kg mortar
Application temperature	From +5 °C to +35 °C
Temperature resistance	From -20 °C to +70 °C
Pot life	2 hours
Maximum application thickness	5-10 mm/coat for floors, 2-3mm/coat for walls
Application of protective coating or waterproofing	After 3-4 days
Foot traffic	After 8 hours
Power sanding	After 24 hours
Resistance to:	
• Ageing	Excellent
• Acids	Excellent (if pH >3)
• Alkalis	Excellent
Chlorides content, per EN 1015-17:	<0.05%

MECHANICAL STRENGTHS

Strength after 28 days, per EN 12190, to:	
• flexion	6.50 ± 1.00 N/mm ²
• compression	21.00 ± 2.00 N/mm ²
Adhesion to concrete, per EN 1542:	≥ 1.40 N/mm ²
Adhesion after 50 freeze-thaw cycles, per EN 13687-1:	≥ 1.20 N/mm ²
Capillary water absorption, per EN 13057:	w < 0.28kg/m ² .h ^{0.5}

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

PROPERTIES

Fiber reinforced white or colored decorative pressed cement screed. Its formula contains high strength cement, suitably graded aggregates, special active additives and resins. The composition of the product provides it with unbreakable adhesion to the substrate; excellent workability and ultimately a perfect top surface with high mechanical resistances. The decorative pressed cement screed DS-250 of DUROSTICK is recommended for use on new or old floors and walls, both indoors and out. Friendly to user and the environment. The timeless architectural requirements for simplicity, functionality and versatility brought the decorative pressed cement screed, once again, to the forefront of new construction as well as restoration projects. The product offers a new perspective, far from the usual ways of wall and floor lining. 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 and 'work' the pigments into the surface), thus creating 96 permanent colors. As another means of coloring DS-250 is to 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 R2, per EN 1504-3.

APPLICATIONS

DS-250 decorative pressed cement screed of DUROSTICK is recommended for application on horizontal and vertical surfaces indoors (pic. 1). Exceptional for outdoor applications, on surfaces made of concrete, plaster, drywall and cement board and a wide range of other substrates. All substrates have to be properly prepared. The product is also recommended to be used as a suitable substrate before the application of DS-256 FLEX VELVET and DS-258 DECO MICRO FLEX. Its special formula allows for the creation of tables, built-in beds and sinks (pic.2), showers, planters as well as steps, yards and many other applications on traditional or modern buildings that require a unique character.

For thin coat applications, up to 4mm, on floors, for example, that are subjected to particular stresses (heavy loads), the addition of the reinforcing polymer resin in powder form, RESIN POWDER of DUROSTICK, is highly recommended. Mix the resin into the mixing water before the addition of the mortar. Add 500gr of

RESIN POWDER for every 25kg (1 bag) of decorative pressed cement screed to drastically increase the mechanical strengths of the product and particularly its top surface. Similarly, the use of RESIN POWDER is recommended for restoration projects that decorative pressed cement screed will be applied over existing tiles or mosaic. However, it is also necessary to first prime all existing surfaces with the acrylic quartz primer DS-255 or DS-290 of DUROSTICK.

USE

1. Surface preparation: The substrate must be sound and well soaked, free from dust, oils and all loose materials. It is necessary to create expansion joints on all outdoor floor application, every 25-30m² and every 50m² indoors. It is also necessary to create perimeter joints, 8-10mm wide all around the flooring surface, both indoors and out.

2. Application: Cover all surrounding surfaces to protect them from unnecessary stains. Empty 25kg of pressed cement screed DS-250 (1 bag) into 5.0lt of clean, cool water. Using a cement mixer or a low rpm electric mixing drill, mix until a lump free, cohesive, homogeneous paste is created, that is easy to work with. Allow for the mixture to mature for 5-10 minutes and mix periodically during use without adding any water. Soak the substrate that will be immediately coated well and apply the product using a gauging trowel. 'Comb' the product on the surface using a wide, stainless notched trowel to a thickness of 5-10mm per coat. On floor applications and especially those on commercial floor spaces subjected to heavy foot traffic, or surfaces subjected to vibrations (lofts etc.), the reinforcement of the preseed cement screed with the fiberglass mesh DS-4160 of DUROSTICK (4x4mm mesh opening and 160gr/m² weight) is highly recommended. Encase the mesh into the 'combed' screed using the stainless trowel. Use the straight edge of the notched trowel to smooth and 'press' the product. This process will eliminate the possibility of the creation of holes due to the trapped air bubbles in the mass of the pressed cement screed. Approximately 1-1.5 hours later and after the pressed cement screed surface has dried sufficiently to allow for foot traffic, begin to work the surface again. Using a spray bottle, wet the surface lightly and smooth it out, using a foam float. Use a gauging trowel to 'press' the cement screed to create the 'pressed' effect look. The long term durability of the decorative pressed ce-

ment screed will depend on the application thoroughness in this stage. 'Run' a wide stainless steel trowel over the entire surface to create its finished look. The pressed cement screed will 'return' the attention given to it by the skilled craftsman and it will highlight patinas, coloring veins and styles of extraordinary decorative artistry. After 3-4 days (depending on the ambient conditions) and once the product has cured and thoroughly dried, it is time to enhance its surface protection.

For indoor and outdoor surfaces, the use of the acrylic, solvent based varnish VISTA is recommended. For indoor and outdoor surfaces that are subjected to stresses, such as floor surfaces, the application of the two component, polyurethane based and matte

finish varnish DECOFIN POLYURETHANE is highly recommended. For indoor surfaces with increased hygiene requirements, the use of the two component epoxy based and gloss finish varnish DECOFIN EPOXY SF is highly recommended as well. For indoor vertical surfaces use the matte finish varnish DECOFIN AQUA, or the gloss finish water based varnish D-72 of DUROSTICK. They are all easy to use and prevent any surface staining.

NOTES

- 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 layer.
- In applications where the levels of humidity are

elevated and the temperature remains low, the varnish application should be done after 7 days.

- 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

7kg/m² per 5mm thick coat.

HELPFUL 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.

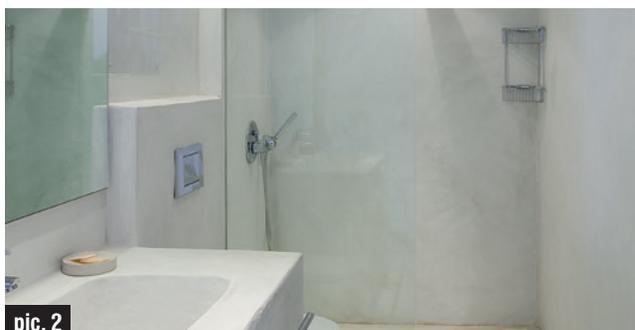
7 colors

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.

AVAILABLE			SPECIAL ORDER			
						
WHITE	LIGHT GRAY	DARK GRAY	SUN RAY	ALABASTER	PISTACHIO	AQUA MARINE



pic. 1



pic. 2

* Alternatively, use the polyurethane based varnish DECOFIN POLYURETHANE with indicative material cost of 4.10€/m²

TABLE OF MATERIAL COST per m²

Product	Consumption	Coats	Cost
Decorative cement screed DS-250	7 Kg	1	6.44 €
Acrylic varnish VISTA	250ml	2	3.78 €
DUROCOLOR POWDER-C	depending on the color	-	0.70 €
TOTAL			10.92 €/m²

Possible additional cost per m²

Improving additive DUROMAX or improving resin RESIN POWDER	depends on the application	-	1.50 €
Quartz acrylic primer DS-255	300-350 gr	1	1.00 €
Fiberglass mesh DS-4160 for floors	-	-	1.30 €
TOTAL			14.72 €/m²

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

STYLES

The pliability of pressed cement screed combined with the ease of use, together with the ability to change colors and character, they all make the pressed cement screed a medium for artistic creations. Create limitless textures using your imagination. The decorative pressed cement screed of DUROSTICK has been designed to work together with the special pigments in powder form, DUROCOLOR POWDER-C. The pigments create 96 color chart colors. Craftsmen that wish to progressively develop their project can do so by using the 20 basic pigments, available in syringe form, from the measuring system for shade rendering, DUROCOLOR of DUROSTICK. With the same ease, create 32 dynamic colors using DUROSTICK GROUTS, for surface color styling. However, DUROSTICK GROUTS cannot color the mass of the cement screed.