

DUROSTICK DS-252 FLEX

Flexible decorative 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	1.35 ± 0.05 kg/lt
Bulk density of fresh mortar	1.80 ± 0.05 kg/lt
Maximum grain size	1.30 mm
Water requirement	5.0lt 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	5-10 mm/coat for floors, 2-3 mm/coat for walls
Application of protective coating or waterproofing	After 4-8 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 & EN 13892-2, to:	
• flexion	≥ 8.00 N/mm ²
• compression	≥ 30.00 N/mm ²
Adhesive strength after 28 days per:	
• EN 1542	≥ 1.80 N/mm ²
• EN 13892-8	≥ 1.90 N/mm ²
Modulus of elasticity, per EN 13412	≥ 15.00 GPa
Adhesion after 50 freeze-thaw cycles, per EN 13687-1:	≥ 1.90 N/mm ²
Capillary water absorption w, per EN 13057:	w ≤ 0.15 kg/m ² .h ^{0.5}
Abrasion resistance BCA, per EN 13892-4	190 ± 20 μm

STORAGE

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

PACKAGING

Paper bag of 25kg on 1,500kg pallet

PROPERTIES

Ready mixed white or colored (7 colors) pressed cement screed, with high mechanical strengths, suitable for application on vertical and horizontal surfaces, both indoors or out. Its cutting edge, innovative, and fiber reinforced composition contains high strength and quality cement, properly graded silica sand aggregates, as well as specialized active additives, and resins of the highest quality. All those elements yield unbreakable bonding to the substrate, impressive workability and a finish surface with high mechanical strengths and durability.

It successfully reacts to expansions and contractions of the substrate without cracking. It remains unaffected by micro vibrations.

It withstands rapid temperature variations, and adverse environmental conditions. Industrially perfected, DS-252 FLEX of DUROSTICK is the evolution of decorative pressed cement screeds **with no need for improving emulsion additions**. Its use crafts perfect finish in both residential applications with style and elegance as well as commercial ones (floors) with increased requirements against abrasion, impact, and scratching. 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), creating 96 permanent colors.

As another means of coloring of DS-252 FLEX 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 and as floor screed material, is classified CT-C30-F7-AR2, per EN 13813.

APPLICATIONS

The Flexible Pressed Cement Screed, DS-252 Flex of DUROSTICK can be used on floors and walls (pic. 1,2), both indoors and out.

It is suitable for concrete and plaster surfaces, as well as lightweight constructions with drywall, providing they are primed with SOLVENT BASED PRIMER or AQUAFIX of DUROSTICK. Apply it on appropriately prepared cement boards as well.

Its great flexibility allows for flawless installations in more demanding ap-

plications, where until now the application of Pressed Cement Screed was not possible. Floors with radiant heating systems, walls and floors subjected to vibrations, attics and lofts, floors made with marine grade plywood or sheet metal (thoroughly cleaned and primed with Quartz Primer, DS-260 or DS-255 of DUROSTICK), terraces and balconies exposed to extreme weather conditions are some such applications, that Flexible Pressed Cement Screed can successfully address.

Its flexibility together with its bonding strength, allows for the further expansion of its applications, beyond the usual. That's why it is the decorative solution for new constructions as well as renovations and/or remodeling of spaces. Existing cement screeds, mosaics and weathered tiles etc. after proper preparation, can be coated over and be brought back to life.

ADVANTAGES

- Wide range of applications in a variety of substrates after proper preparation.
- Unaffected from micro vibrations, expansion and contractions of surface.
- High mechanical strengths of the finish surface.
- Advanced formula that does not require any improving additives.
- Extremely easy to work with.
- It yields results with excellent decorative interest, inspired by architectural traditions.
- It can be colored and styled.

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-252 Flex (1 bag) into 5.0lt of cool, clear 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 coated immediately 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 cement 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 4-8 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.

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.

SAFETY DIRECTIONS

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

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.

8 colors

AVAILABLE



WHITE



LIGHT GRAY



DARK GRAY



ICE



SUN RAY



ASABASTER



PISTACHIO



AQUA MARINE

SPECIAL ORDER

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.

* Alternatively, use the acrylic varnish VISTA with indicative implementation cost of 3.78 €/m²



pic. 1



pic. 2

TABLE OF MATERIAL COST per m²

Product	Consumption	Layers	Cost
Decorative cement screed DS-252 FLEX	7 kg	1	10.40 €
Polyurethane based varnish DECOFIN POLYURETHANE*	300gr	2	4.10 €
DUROCOLOR POWDER - C	depending on the color	-	0,70 €
TOTAL			15.20 €/m²

Possible additional cost per m²

Quartz acrylic primer DS-255	300-350 gr	1	1.00 €
Fiberglass mesh DS-4160 for floors	-	-	1.30 €
TOTAL			17.50 €/m²

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