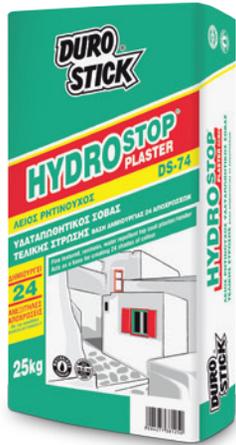


## 5.4 Products for plastering & repairs

# HYDROSTOP PLASTER DS-74

Fine finish, resinous, water repellent top coat plaster/ render. Use it as the base for creating 24 colors



### TECHNICAL SPECIFICATIONS (Measurement conditions 20 °C and 65% R.H.)

Form - Color	Cementitious mortar - White
Colors	24 permanent colors
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	1.0 mm
Water requirement	6.0 lt per 25 kg of mortar
Application temperature	From +5 °C to +30 °C
Temperature resistance	From -35 °C to +90 °C
Pot life	2 hours
Maximum application thickness	Up to 5 mm/coat

### MECHANICAL STRENGTHS

Strength after 28 days, per EN 1015-11, to:	
• flexion	2.60 ± 0.50 N/mm <sup>2</sup>
• compression	5.50 ± 0.50 N/mm <sup>2</sup>
Adhesive strength after 28 days, per EN 1015-12:	
	0.87 ± 0.10 N/mm <sup>2</sup>
Capillary water absorption (c), per EN 1015-18:	≤ 0.20 kg/m <sup>2</sup> .min <sup>0.5</sup>

Experimental measurements were performed per EN 998-1 in the Chemical Laboratory of DUROSTICK and confirmed by the CERECO Audit (code 136/2009).

### CONSUMPTION

Approximately 5kg/m<sup>2</sup>/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.

### NOTE

After hardening, the product is harmless to health and the environment.

### PACKAGING

Paper bag of 25kg on 1,500kg pallet

### PROPERTIES

Ready mixed top coat plaster, based on high strength white cement, with grain size of up to 1mm; reinforced with acrylic resins.

Suitable for indoor and outdoor use. As a colored, water repelling plaster system, it offers complete water repellency and breathability, without blocking water vapour permeability.

Its unique way of creating a selection of 24 stable colors, using DUROCOLOR POWDER-C pigments of DUROSTICK, available in 250gr bags, (inorganic iron oxides coated with vinyl resins, in powder form), allows for the purchasing of even a minimal quantity of plaster to be colored.

Classified GP: CSIII/W2 per EN 998-1 (CERECO code 136/2009).

### ADVANTAGES

- HYDROSTOP PLASTER DS-74, can be waterproofed quickly and easily, 15 days after the completion of its application, with D-18 and a paint roller. Thus, costs are reduced by finishing the job using the same scaffolding. It is recommended to reapply D-18 every 10 years.
- Impregnate the finished surface with D-18 of DUROSTICK, the silicone based, water repelling agent, for plaster and concrete. D-18 does not peel, nor shine and does not create a surface film. It protects the color and increases water repellency up to 100%. It allows for the breathability of surfaces, and

ensures healthy living. At the same time, it prevents the absorption of atmospheric pollutants and mud rain, making cleaning an easier task.

- It does not crack nor burst like the traditional plasters do.
- It is extremely resistant to adverse weather conditions and UV radiation.
- It offers an easy way to create 24 permanent colors, by using the pre weighed, 250gr bags of pigments in powder form, DUROCOLOR POWDER-C.
- It simplifies the project because it requires only water for its preparation.
- It makes indoor and outdoor color painting redundant.
- It is more affordable than the traditional way of plastering and painting.
- It offers excellent resistance to moisture, snow and frost.
- It provides excellent adhesion and high mechanical strengths.
- Most surface scratches are not visible, because the plaster is colored throughout its mass.

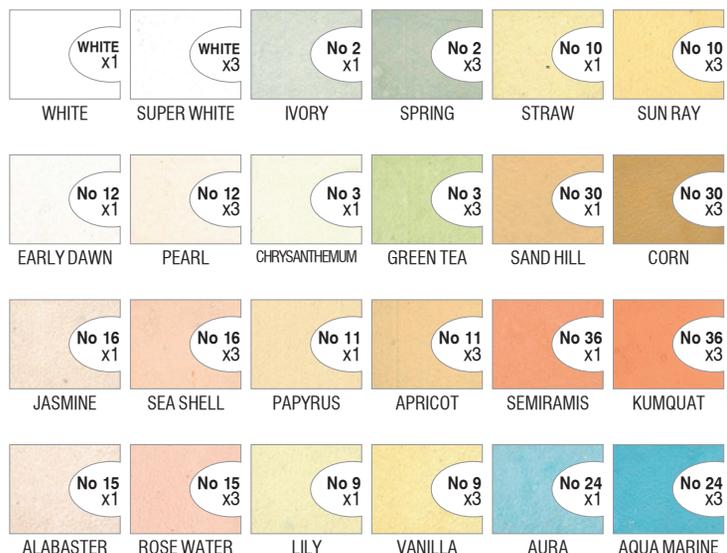
### APPLICATIONS

The colored plaster application system, HYDROSTOP PLASTER DS-74, is applied on wall surfaces made from bricks, cement blocks or concrete. Surfaces have to be coated with a scratch and a traditional base coat of plaster or with the fiber

Color it by adding pigments in powder form, DUROCOLOR POWDER-C that create 24 colors



### COLOR CHART



Discrepancies between color chart colors and the final result are due to shortcomings in the printing process

reinforced scratch/base coat, D-40 of DUROSTICK. Allow for one month to pass from the scratch/base coat plaster application, in order to prevent damages by other trades working on the project.

## USE

**1. Surface preparation:** The application substrate should be clean, free from loose materials, dust and oils. Before application, soak the surface well, especially during the summer months to reduce its absorbency. Before applying the colored plaster, HYDROSTOP PLASTER DS-74, **it is necessary** for the substrate to be primed. Use the special preparation primer for plasters, HYDROSTOP PLASTER PRIMER, to prevent early dehydration and allow for the plaster to dry evenly. That ensures color uniformity to the entire surface.

**2. Application:** Empty HYDROSTOP PLASTER DS-74 in a clean cement mixer containing cool

water mixing with the appropriate quantity of the pigment in powder form, DUROCOLOR POWDER-P. Choose the color and its quantity based on the plaster color chart. The mixing ratio is 6.0lt of cool water per 25kg of plaster. Mix using a low rpm electric mixer. Make sure that the mixture is lump free and it has been completely homogenized. Apply the plaster with a plastering hawk and a gauging trowel or using a plastering machine, to a thickness of 3-5mm. After the plaster sets, smooth the surface using a plaster float.

## NOTES

- During the finishing process, the sponge float must be slightly damp and not soaked, because there is a risk of spot discoloration of the top surface excess water.
- The addition of white pigment, from the DUROCOLOR POWDER-C system, into the HYDROSTOP PLASTER DS-74, will yield an ultra

white surface. Final protection is achieved by applying 2 coats D-18 of DUROSTICK, using the 'wet on wet' application method, ensuring the ultimate protection, even for houses in coastal areas.

- Paints, varnishes and graffiti that have soiled the plaster surface, can easily be removed using D-19 GRAFFITI REMOVER of DUROSTICK.
- Quantities of 1,700kg or more can be delivered factory colored (special order).
- For cases requiring additional quantities as supplements, the pigments in powder form, DUROCOLOR POWDER-C, are available in 250gr bags.
- During the summer months, the plaster must be soaked 12 hours after its application completion, in order to protect from dehydration.

## CLEANING

Clean all tools and equipment with water, immediately after use.

## TABLE OF INDICATIVE APPLICATION COST PER m<sup>2</sup>

<i>Traditional way of plastering &amp; painting</i>		<b>HYDROSTOP PLASTER DS-74</b> <i>Smooth finish, resinous, water repelling plaster</i>	
	Materials	Cost	
			HYDROSTOP PLASTER PRIMER Colored plasters preparation primer
			0.21 €/m <sup>2</sup>
Plastering materials	Marble, lime, cement	1.20 €/m <sup>2</sup>	HYDROSTOP PLASTER DS-74 Smooth finish, resinous, water repelling plaster
			2.45 €/m <sup>2</sup>
Painting materials	Color addition	0.30 €/m <sup>2</sup>	DUROCOLOR POWDER-C pigments
	Top quality acrylic paint	1.20 €/m <sup>2</sup> /2 coats	Impregnating liquid silicone DUROSTICK D-18
	Acrylic primer	0.26 €/m <sup>2</sup> /coat	
			1.50 €/m <sup>2</sup>
<b>TOTAL</b>		<b>2.96 €/m<sup>2</sup></b>	
<b>4.86 €/m<sup>2</sup></b>			
Painting time	After 30 days with dry weather, with new scaffold at additional cost		Even after 15 days, but with the same scaffold, at no extra cost

*Labor cost must be added to the above totals.*



pic. 1



pic. 2