

DUROPAIN-PU



Polyurethane-Acrylic Hybrid paint



EPD®

■ PROPERTIES

High quality polyurethane acrylic paint of new and advanced Hybrid technology. Ensures unique durability when applied to buildings in coastal or mountainous areas. Distinguished for its strong adhesion to new and existing, sound substrates, its high coverage, and its water vapour permeability. It forms a water-impermeable membrane that maintains its flexibility from -20°C and up to +80°C. It does not saponify and acts as an effective carbonization barrier. It has excellent resistance to adverse weather conditions and UV radiation. Certified 'cool' (*) paint by the University of Athens, as Polyurethane and Acrylic paint for exterior surfaces.

The product has received an Environmental Product Declaration (EPD) following an assessment of the environmental impact of its life cycle.

Registration number: S-P-13784,

The International EPD® System.

■ ADVANTAGE

The results of the salt tests (accelerated corrosion test), as well as the tests in freeze-thaw environments, showed the product to have double the durability of ordinary acrylic paints. That is due to the balanced composition of the acrylic and of the polyurethane resins in its formula.

■ APPLICATIONS

DUROPAIN PU is ideal for all types of exterior and interior surfaces made of concrete, plaster, cement board, and drywall. Ideal for all surfaces that are subject to frequent cleaning, as it presents exceptional resistance to surface washing (ten times higher than ordinary acrylic paints) without emulsifying.

■ USE

1. Substrate preparation

Concrete and marble based plaster surfaces have to

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be dry, cured for at least 30 days after their construction, and free from loose materials.

- **For new concrete surfaces**, make sure to remove any formwork oils using BIOCLEAR INDUSTRIAL, the biodegradable oil cleaner. Continuing, apply two, 1mm thick coat each one, of the corrosion inhibitor RUST FREE POWER of DUROSTICK, on any exposed rebars. Once dry, cover the rebars with repair mortar DUROFIX of DUROSTICK or use the thixotropic and rapid set repair mortar DS-245 POWER MORTAR RAPID of DUROSTICK. Finally, prime with SOLVENT BASED PRIMER of DUROSTICK, diluted with THINNER 101 or white spirit.

- **For new marble based plaster surfaces**, sand them down using #60 sandpaper and prime using 100% ACRYLIC PRIMER, AQUAFIX, the micromolar stabilizer, or SOLVENT BASED PRIMER of DUROSTICK.

- **For skimming or spackling**, use STUCOFIX paste, STUCOFIX-P, POWDER COAT, GRANULAR ULTRA or GRANULAR of DUROSTICK, or any combination of the above, depending on the surface imperfections and smoothness of the finish required. Follow by priming the surfaces.

- **Already painted surfaces** require just two coats of DUROPAIN PU of DUROSTICK.

- **Surfaces soiled with soot and air pollution**, are cleaned with the biodegradable cleaner BIOCLEAR (for nicotine and soot) or are primed with METAL PRIMER of DUROSTICK.

- **For peeling surfaces**, remove all loose sections and prime using 100% ACRYLIC PRIMER, or AQUAFIX, the micromolar stabilizer of DUROSTICK.

- **Marble based plaster surfaces with severe cracks**, are sealed with fast setting repair plaster D-32. Concrete surfaces are sealed with repair mortar D-55 of DUROSTICK and primed afterwards. Especially on surfaces with intense expansions and contractions, the application of the water repelling, flexible plaster, HYDROSTOP PLASTER ELASTIC or the innovative and

flexible, multipurpose, repairing cementitious mortar, MEGAFIX of DUROSTICK, is highly recommended.

- **Fill the joints around door and window casings**, by using the paintable ACRYLIC CAULK for interior use, the elastomeric sealant DUROFLEX-PU of DUROSTICK for exterior use, or the versatile sealant and adhesive for interior/exterior use, DS-POLYMER, available in 32 colors.

2. Application

Dilute DUROPAIN PU with water at a ratio of 5-10%, depending on the substrate, and mix well. The DARK base is diluted with water at a ratio of 2-5%. Apply with brush, roller or airless spray gun in 2 coats. Apply the second coat, after the first one has fully dried.

(*) In order to comply with the parameters that characterize a paint as "Cool" material and to maximize its energy efficient benefits, by mainly maintaining its reflectivity, it is recommended to choose/apply a white or light color paint.

■ LIMITATION OF USE

Do not apply if temperatures are below +8°C or there is a chance of rain or frost within the next 12 hours.

■ CLEANING

Clean all tools with water and detergent solution, immediately after use.

■ CONSUMPTION

1lt/10-12m² per coat, on properly prepared surfaces.

■ STORAGE

Store in places protected from sunlight and frost, for 18 months from production date.

■ SAFETY DIRECTIONS

The product needs no hazard labeling under current European and National legislation. However, it is recommended to keep the product away from the reach of children. If swallowed, seek immediate medical advice and show the container or label.

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■ PACKAGING

Carton box with 12pcs of 750ml each one

3lt container (on a 120 pcs pallet)

10lt container (on a 48 pcs pallet).

TECHNICAL SPECIFICATIONS	
■ Available color	White that does not yellow over time
■ Colors	The white paint can be colored using the 20 basic DUROCOLOR liquid pigments in 20ml syringe packaging, to create 120 permanent colors. The white paint can also be colored to all the PAL choices. The DARK base is colored via the COLOR COLLECTION System in any desired color
■ Washability	> 25.000 cycles (per DIN 53778)
■ Gloss	Satin
■ Drying time	1 hour (touch dry), depending on the ambient conditions
■ Recoating time	4-5 hours, depending on the ambient conditions
■ Application temperature	From +8°C to +35°C

V.O.C. (Volatile Organic Compound):

Limit value of maximum V.O.C. content per EU (Directive 2004/42/CE) for the particular product (Class A/c: 'Coatings for exterior walls of mineral substrate' Type WB): 40gr/lit (2010). Ready to use product contains maximum 39gr/lit V.O.C.

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The technical specifications and directions of use contained in this technical data sheet 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.