

# DS-259 DECO MICRO RESIN



Resinous decorative cement mortar of fine finish



## ■ PROPERTIES

Decorative and flexible resinous cement mortar with exceptional surface hardness, zero shrinkage, and powerful adhesion. Suitable for both interior and exterior applications.

This unique technological combination of three polymer resins, graded quartz aggregates, and high strength cement, produces a fine, waterproof and durable against wear surface without cracks.

Add DUROCOLOR POWDER-C, the water-soluble pigments in powder form. They will color the product throughout its mass (\*), creating 96 permanent colors.

The product is distinguished for its high abrasion and scratch resistance, even when applied just 2mm thick.

Does not require reinforcement with fiberglass mesh or the addition of improving additives.

**Classified:** • as a product for surface protection of concrete surfaces (c), per EN 1504-2 (principles

2.5/MC, PR/moisture control, surface improvement, physical resistance).

• as floor screed material in category CT-C16-F4-AR1, per EN 13813.

• as render in category GP: CSIV/Wc2, per EN 998-1.

## ■ ADVANTAGES

- Unbreakable adhesion to all substrates.
- Does not crack.
- Crack coverage with strong resistance to expansions and contractions.
- Ideal for renovating and decorating residential and commercial spaces.
- An inexpensive product due to the reduced coating thickness (2mm), short application time and absence of reinforcing fiberglass mesh.
- Great coverage even with a single coat.
- Apply the varnish 2-3 days after the application completion, depending on the weather conditions.
- Excellent workability and easy to apply.

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.

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- Fine-grained, creates a smooth surface.
- Increases and extends the waterproofing and durability of the application as a whole.

### ■ APPLICATIONS

DS-259 DECO MICRO RESIN is perfectly suitable for floor and wall applications, as well as built-in furniture, sinks, showers, wood doors, tables and more.

Ideal for repairing and renewing weathered and worn-out microcement that failed. It is also ideal for repairing sections of damaged plaster as well as coating large surfaces when performing interior or exterior, complete or partial renovations.

### ■ USE

#### 1. Surface preparation

All application surfaces must be free of dust, oils and loose materials.

**For new concrete or plaster surfaces**, the substrate must be flat, sound, free from dust, oils, loose materials and thoroughly soaked before the application.

**For applications on existing tiles**, the joints must be filled first with the same product and once dry, coat the entire surface without using a primer.

**For new surfaces made of plaster or gypsum board**, first prime using AQUAFIX.

**For painted, sound surfaces**, just lightly sand them with the appropriate sandpaper.

**For painted but peeling surfaces**, first remove all peeling paints, dust the surfaces well and then prime with the appropriate primer.

**For wood surfaces**, first prime using DS-260 QUARTZ PRIMER or DS-290 quartz primer of DUROSTICK.

**For uneven surfaces**, apply fast setting tile adhesive RAPID (SPEED SET) of DUROSTICK and even the surfaces.

It is highly recommended to maintain all substrate expansion joints. In any case, it is necessary to create expansion joints every 30-50m<sup>2</sup> if non exist .

#### 2. Application

Cover all surrounding surfaces to protect them from unnecessary stains.

In a clean container, empty 20kg of DS-259 Deco Micro Resin (1 bag) into 5.0-5.5lt of cool, clean water. Using a low-rpm drill, mix until a lump-free, homogeneous paste is created. Allow for the mixture to mature for 5-10 minutes and mix periodically during use without adding any water.

Apply using the STAINLESS STEEL TROWEL of DUROSTICK, in one or two coats, 1mm thick each one. Apply the second coat once the first one has thoroughly dried. Depending on the desired aesthetic result:

**For applications on large surfaces**, and by using a stainless steel trowel, 'press' the surface of the fresh mortar in different directions almost immediately.

**For applications on smaller surfaces**, allow for the mortar to mature and after a light surface soak, 'press' the surface of the microcement in different directions.

After 2-3 days (depending on the ambient conditions) and once the product has cured and thoroughly dried, it is time to enhance its surface protection. For interior wall surfaces use the matte finish varnish DECOFIN AQUA of DUROSTICK. For interior and exterior surfaces, the use of the acrylic, solvent-based varnish VISTA is recommended. On floor surfaces and areas with increased mechanical stresses, the use of the two-component, polyurethane based varnish DECOFIN POLYURETHANE or the two-component water soluble polyurethane-based matte varnish, DECOFIN AQUA PU, (ideal for interiors that are not adequately ventilated, as it is odorless), are both highly recommended.

For interior surfaces with increased hygiene requirements (bathrooms, sinks, kitchen countertops), the use of either the two-component, epoxy-based and gloss finish varnish DECOFIN EPOXY SF or the two-component epoxy-based and satin finish varnish DECOFIN EPOXY AQUA are both highly recommended as well.

To maintain and protect the selected color of DS-259 DECO MICRO RESIN and not alter/darken it from the varnish application, it is recommended to apply the micromolar primer AQUAFIX of DUROSTICK, before applying the protection varnish.

To be absolutely sure of the aesthetic result and the degree of the influence the applied varnish will have

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on the microcement color, one can consult the MICROCEMENT FAN DECK that is located in the stores that sell the specific products.

**■ CLEANING**

Clean all tools with water immediately after use.

**■ CONSUMPTION**

1-1.5kg/m<sup>2</sup>/mm thick coat.

**■ USEFUL TIPS**

- Do not apply in temperature below 5°C and over 35°C.
- During the summer months, the final surface must be protected from intense sunshine for the next 24 hours from the application completion to avoid premature dehydration.
- Clean the top surface of DS-259 DECO MICRO RESIN easily using mild household detergents. Cleaning is greatly facilitated when the surface is protected by applying one of the special purpose DUROSTICK varnishes.

**■ STORAGE**

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

**■ SAFETY DIRECTIONS**

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

**■ PACKAGING**

Paper bag of 20kg on 1,200kg pallet.

### Color chart of 12 colours

WHITE	ICE	LIGHT GRAY
DARK GRAY	CARBON	CHESTNUT
OAK TREE	MOCHA	ALABASTER
PISTACHIO	SUN RAY	AQUA MARINE

**(\*) Coloring the microcement throughout its mass using DUROCOLOR POWDER-C:**

- Select one of the 96 color chart colors. Empty the required amount of pigments into a clean container with 5.0-5.5lt of clean, potable water. Mix well using a low-rpm drill. Add the white DS-259 DECO MICRO RESIN, microcement and continue to mix until a fully homogenized colored mixture is created.
- Quantities over 250kg, approximately lines 100m<sup>2</sup>, can be de-livered factory colored in any avail-able color from the DUROCOLOR POWDER-C color chart (special order, at a pre-agreed cost).

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<b>TECHNICAL SPECIFICATIONS</b> (Measurement conditions 20°C and 50% R. H.):	
■ Form - Color	Cementitious mortar - White
■ Colors	11 permanent colors and 96 selected colors, based on the DUROCOLOR POWDER-C color chart
■ Bulk density of dry mortar	1.08±0.05kg/lt
■ Bulk density of fresh mortar	1.60±0.05kg/lt
■ Maximum grain size	600µm
■ Water requirement	5.0lt water in 20kg mortar
■ Application temperature	From +5°C to +35°C
■ Temperature resistance	From -35°C to +90°C
■ Pot life	1.5 hours
■ Maximum application thickness	2mm
■ Application of protective coating or waterproofing	After 2 to 3 days
■ Foot traffic	After 8 hours
■ Sanding with equipment	After 24 hours (if required)
■ Resistance to:	
• Ageing	Excellent
• Acids	Excellent (when pH > 3)
• Alkalis	Excellent
■ Chlorides content per EN 1015-17	< 0.05%

<b>PRODUCT PERFORMANCES</b>	
■ Permeability $S_D$ in CO <sub>2</sub> per EN 1062-6	$S_D \geq 50m$
■ Water vapour permeability $S_D$ per EN ISO 7783-2	$S_D \leq 5m$ [class I, water vapour permeable]
■ Capillary water absorption $w$ per EN 1062-3	$w \leq 0.20 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
■ Adhesive bond per EN 1542	$\geq 1.50 \text{ N/mm}^2$
■ Impact resistance per EN ISO 6272-1	75 Nm [class III]
■ Abrasion resistance BCA per EN 13892-4	120±20µm
■ Compression resistance per EN13892-2	18±2.00 N/mm <sup>2</sup>
■ Reaction to fire, after the application, per EN 13501-1	Euroclass F

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