

DS-258 DECO MICRO FLEX



Microcement in paste form



■ PROPERTIES

White or colored decorative top coat in paste form, that is ready to use. Its unique formula contains properly graded aggregates, special active additives, and acrylic resins that give excellent adhesion to the substrate, exceptional workability, high abrasion resistance, and an unmatched smooth finished surface. Ideal for interior applications on walls and floors.

Also ideal for exterior applications on facades of buildings and residences, shops, hotels, restaurants, etc. Classified as product for surface protection of concrete surfaces per EN 1504-2.

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

Registration number: S-P-13779,
The International EPD® System.

■ ADVANTAGES

- Easy to work with, easy application.
- Exceptional crack coverage/repair with unique resistance to expansions and contractions.
- Exceptional coverage even when applying one coat.
- Exceptional bonding strength on almost any surface.
- Quick drying.
- Can be coated with varnish the next day after its application completion.
- Can be colored and styled through the DUROCOLOR system (in 20ml syringe packaging). It also provides the ability to redefine and develop the chosen color, correcting it gradually or even partially.
- Constitutes the ideal solution for the renovation and the decoration of residential and commercial spaces.

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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■ APPLICATIONS

Suitable for wall applications and special projects such as countertops and sinks, showers, built-in furniture and wood furniture, tables, doors, etc. It is also unique for its ability to be used for any color change and any surface repair over deteriorated or damaged microcement, especially where rapid application and quick project turnover is required. Its distinct and unassuming style, together with its easy and clean application, makes the product a one-of-a-kind, fast and inexpensive solution (due to its great coverage and durability, even at small thicknesses), for everyone who wants to renovate and decorate his residential or commercial space. Its thin but very durable and strong coat aesthetically upgrades existing, weathered or out-of-style spaces, walls, floors and ceilings into traditional or modern ones, always according to your style and taste.

■ USE

1. Surface preparation

All surfaces have to be sound, flat, clean, dry, free from dust, oils, worn out and peeled paints, loose materials and moisture.

For new marble-based plaster surfaces and concrete, sand them using the appropriate sandpaper, repair any defects with SUPER FLEX POWDER, remove all the dust and prime them using, AQUAFIX.

For new surfaces made of lime-based plaster, drywall and cement board, prime them using the micromolar stabilizing primer, AQUAFIX.

For already painted, sound surfaces, only light sanding is required using the appropriate sandpaper.

For already painted but peeling surfaces, remove the deteriorated and peeling paint, clean the surface and prime using AQUAFIX.

For rough, unpainted wood surfaces, first protect them from woodworm, fungi and moisture using the impregnating preservative DUROXYL WOOD Protection/conditioner.

For uneven floor surfaces, it is highly recommended to use either the microcement DS-250 or DS-252 FLEX, with the addition of the alkali resistant fiberglass mesh DS-4160. Please follow the instructions of the products, as described on their packaging.

For substrates made of marble, tile or mosaic, first prime them using the quartz-based primer DS-255 or DS-290 and then apply either DS-250 or DS-252 FLEX.

When the substrate of the application is existing but damaged microcement, spot repair all hairline cracks and allow for them to dry. After completing the appropriate (as described above) substrate preparation, proceed with the application of DS-258 DECO MICRO FLEX.

2. Application

Choose one of the available colors (white, light gray, dark gray) of DS-258 DECO MICRO FLEX or color the white product using the measuring system for shade rendering DUROCOLOR (pigments in 20ml syringe packaging) of DUROSTICK. It is possible to create dozens of shades of gray by mixing the white microcement with the grays (light, dark) or the grays together. It is also possible to create many other colors by mixing the white paste with the colors created through the DUROCOLOR system. Apply the product using a stainless steel trowel in one or two coats, that do not exceed the total thickness of 1.2-1.4mm. The second coat must be applied when the first one is fully dried by working the trowel in different directions. Pressing the trowel across the surface repeatedly yields special styling effects and vivid color variations, always depending on the chosen color. Additional pressing strokes of the trowel create darker color variations. If the desired effect is a more uniform color on the finish surface, then simply apply the product in one to two coats, avoiding the excessive pressing of the surface and allow for the product to completely dry. Once dry, sand the surface using No180 sandpaper and gradually move to finer grit, up to No240 sandpaper. That procedure will yield an exceptionally smooth surface that will be ready to be varnished. After a day

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has passed (depending on ambient conditions) and the microcement has cured and dried thoroughly, it is time to additionally strengthen the surface protection using a varnish.

For interior vertical surfaces, without moisture, the application of the matte varnish DECOFIN AQUA is recommended, since it is completely odorless during its application. The use of the acrylic varnish VISTA, both indoors and out is highly recommended.

On floor surfaces and spaces with increased stresses, the use of the two-component, polyurethane-based matte varnish DECOFIN POLYURETHANE, or the two-component water soluble polyurethane-based matte varnish DECOFIN AQUA PU (since it is odorless, it is ideal for interior spaces that are not adequately ventilated), is highly recommended. All varnishes are applied in two coats. For applications in locations where water pools (e.g., showers etc.), apply the varnishes in three coats. Please allow for the previous coat to fully dry before applying the next one. Their easy application will prevent any surface staining.

■ HELPFUL TIPS-NOTES

- Coloring through the DUROCOLOR system: Choose one of the 120 available colors. You will notice that each color has a recipe that indicates the ml required for the specific color to be produced. Multiply that amount of ml by the coefficient 0.2. Take for example color No90. Using the DUROCOLOR pigment syringe No9, calculate 3ml that the recipe calls for, times the coefficient 0.2, resulting in $3\text{ml} \times 0.2 = 0.6\text{ml}$ for every kg of microcement in paste form. Any small deviation from the chosen color is due to the application method, the pressing and the desired style used.
- Clean the application tools often using a soaked cloth or sponge. That will prevent any residue from forming on the tools, that will result in scratches and black marks on the surface.
- It is necessary to take into concern that the final color will be affected after the varnish application. The chosen color will darken, even when that color is a light one. Before applying the varnish on the entire surface, it is advisable and recommended to test apply the varnish on a small area and see the results.
- Exterior surfaces and surfaces in general that are cleaned with strong detergents and chemicals, should

be inspected yearly for the integrity of their varnish coats.

- When coating floor surfaces, protect them by installing felt pads under all furniture legs.

■ CLEANING

Clean all tools with water, immediately after use.

■ CONSUMPTION

0.6-0.7kg/m² per coat, depending on the substrate.

■ STORAGE

Store in the factory sealed packaging, in places protected from sunlight and frost, for 18 months from production date.

■ SAFETY DIRECTION

The product needs no hazard labeling based on 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.

■ PACKAGING

- 5kg container (on a 120 pc pallet)
- 15kg container (on a 48 pc pallet).

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TECHNICAL SPECIFICATIONS	
■ Form - Color	Paste - White, light gray, dark gray
■ Colors	The white color product can be combined with the 20 basic DUROCOLOR liquid pigments in 20ml syringe packaging, to create 120 permanent colors
■ Bulk density	1.65±0.05 kg/lt
■ Solids by weight	73-79% w/w
■ pH	8.00±0.50
■ Gloss	Matte - satin, depending on the application
■ Application temperature	From +5°C to +35°C
■ Dilution	The product is ready for use. Do not dilute
■ Drying time	30 minutes (touch dry), depending on the application thickness and the ambient conditions (temperature, humidity)
■ Capillary absorption and permeability to water	0.01kg/m ² · h ^{0.5} (EN 1062-3, EN 1504-2 requirement: w< 0.1)
■ Permeability to water vapour S _D per EN ISO 7783	S _D =1.17m (Class I, S _D <5m)
■ Adhesion strength per EN 1542	1.2 N/mm ² (requirement for flexible systems with no traffic: 0.8 N/mm ²)
■ Reaction to fire	Class F

V.O.C. (Volatile Organic Compounds)

Limit value of maximum V.O.C. content according to EU (Directive 2004/42/CE) for the particular product (category I/i: 'Decorative effect coatings', Type W): 200gr/lt (2010). The ready to use product contains maximum 45gr/lt V.O.C.

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HARDENER

When coating floor surfaces of residential or commercial spaces that are subjected to increased stresses, heavy loads and/or high traffic (restaurants, cafes, bars, etc.), it is necessary to increase both the resistance to abrasion as well as to scratching. Meet these conditions by adding the **DS-258 DECO MICRO FLEX HARDENER** into the **DS-258 DECO MICRO FLEX** container. When mixing the two components, make sure to empty the entire amount of the hardener into the container. Mix using a low-rpm electric mixer, until the complete homogenization of the mixture.

PACKAGING: 156gr container as an additive for 5kg of DS-258 DECO MICRO FLEX.

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