

SD 90 DÉCOR•MICRO FLEX

Elastic microcement mortar for floor & wall applications

polymer-modified - water resistant



DESCRIPTION

Elastic, fine graded, microcement mortar formulated for creating smooth, modern and durable surfaces on interior and exterior, vertical and horizontal surfaces. It exhibits exceptionally high flexibility which allows seamless application, as well as high resistance to abrasion, excellent bonding with the substrate and excellent resistance to moisture.

It is classified as type PCC R2 cementitious repair mortar according to European standard EN 1504-3.

SD 90 DÉCOR•MICRO FLEX can be easily coloured with **NATURAL COLOURS** inorganic pigments in powder form.

APPLICATIONS

Used on floors and walls, indoors and outdoors, on any type of substrate (concrete, plaster, old floors, underfloor heating, gypsum boards, cement boards, MDF).

Ideal for creating unique aesthetics structures such as custom-made bathtubs and washbasins, countertops, furnishings, etc.

It is ideal for renovations, restorations and new constructions.

PROPERTIES

- Industrial product of constant and controlled quality.
- Produced and controlled according to European standard EN 1504-3.
- Easy to prepare and apply.
- High mechanical strength and excellent adhesion to the substrate.
- High abrasion resistance.
- Increased flexibility. No need to add any enhancing admixtures.
- Excellent architectural proposal for a modern as well as timeless aesthetic.
- Seamless application, without joints.
- Ideal for modern houses and commercial places, but also for traditional villages and islands.
- Suitable for indoors and outdoors.
- Unlimited colour combinations with **NATURAL COLOURS** powder colour pigments.

APPLICATION INSTRUCTIONS

- The substrate must be clean from dust, grease, subtle materials, etc., prior to application.
- Porous surfaces are treated with **ACRYLIC PRIMER** deep-penetrating primer in order to stabilize them and minimize absorbency.

Wall application

- In case the substrate has irregularities or joints (gypsum/cement boards) apply a layer of the levelling base mortar **SD 300** and embed a 145-160 g/m², 4x4mm fiberglass mesh in it. Treat the substrate with acrylic bonding primer (**FINO•CONTACT**) and as soon as it is dry and stable, apply **SD 300** with a notched trowel. The fiberglass mesh is embed in the fresh layer of **SD 300** which is then levelled in order to cover and hide the mesh completely. If necessary add a second layer of **SD 300**. Let the surface dry for 24-48 hours, sand it and apply **ACRYLIC PRIMER** deep-penetrating primer.
- A bag of **SD 90 DÉCOR•MICRO FLEX** (20kg) is added into 6.00-6.40 kg of potable water under continuous stirring until a homogeneous mortar without lumps is formed, having the necessary workability. Mixing can be done with a mortar mixer or a low-speed electric mixer. In case you desire to create a colour tone with **NATURAL COLOURS** inorganic pigments, it is necessary to pre-dilute the pigments in water separately and then introduce them in the mixing water before adding the dry mortar.

- The mixture is applied with a steel trowel in two or more layers of maximum thickness 1mm per layer. Each consecutive layer is applied after the previous one is dry. Between layers sand the surface lightly and apply **ACRYLIC PRIMER**.
- Let the finished surface dry for 7-10 days before applying any protective top-coat.

Floor application

- On floors it is more preferable to apply an epoxy primer (**EPOXY•PRIMER**) and spread fine-graded quartz sand on the fresh layer. After the primer is completely set (24 hours) remove the part of the quartz sand that is not adhered on the primer layer using a vacuum suction machine.
- Then, apply the levelling, base mortar **SD 300** and embed a 160g/m², 4x4mm fiberglass mesh in it.
- Continue following the same application instructions described for wall application above.

Applying a protective coating

- 7-10 days after application the surface of microcement can be treated with the special protective polyurethane varnishes **DECODUR COAT•PU 2K** with gloss or matte finish. The varnishes protect the surface of the microcement from stains like oil, wine, coffee, etc., render the surface water tight and increase abrasion resistance.
- The application of the protective varnishes deepens the colour tone of the microcement emphasizing the special microcement-pattern of the finished surface. In case you demand a less deep colour with minimum surface pattern, apply a coat of **ACRYLIC PRIMER** before the polyurethane varnish.
- For swimming pools and surfaces that are constantly wet (bathtubs, sinks, etc.) it is necessary to apply at least 2-3 coats of **DECODUR COAT•PU 2K GLOSS** to ensure total water-tightness. In case a matte finish is desirable, apply 2 additional coats of **DECODUR COAT•PU 2K MAT**.
- In general, in high-traffic areas (floors) it is advised to always apply a protective varnish with gloss finish for increased durability.

RECOMMENDATIONS

- Do not mix the product with dirty or salty water.
- During the application, temperature should be between +5°C and +35°C.
- Do not add cement, aggregates or other additives.
- Do not add water when the mixture begins to set.

TECHNICAL CHARACTERISTICS

PCC R2 ACCORDING TO EUROPEAN STANDARD EN 1504-3

Appearance		Powder		
Colour		White		
PROPERTY		UNITS	STANDARD	VALUE
Bulk density		kg/lt		1.3
Mixing water ratio		lt/kg		0.3
pH				> 10
Density of the mix		kg/lt	EN 1015-6	1.75
Workable time		h	EN 1015-9	1
Maximum thickness per layer		mm		1
Ready for foot traffic		h		24
Application of protective coating		d		7-10
Mechanical strength after 28 days dry storage	■ Compressive	N/mm ²	EN 12190	≥ 25.0
	■ Flexural	N/mm ²	EN 12190	≥ 7.5
Adhesion with substrate		N/mm ²	EN 1542	≥ 2.0
Capillary water absorption		kg·m ⁻² ·h ⁻²	EN 13057	< 0.2
Abrasion resistance (Böhme)		cm ³ /50 cm ²	EN 13892-3	9
Temperature resistance		°C		-30 to +90
Reaction to fire			EN 13501-1	F

Note: Measures were carried out in laboratory environment conditions (+22°C, 60% R.H.) with no ventilation. The different conditions on site (temperature, humidity, wind, substrate absorption) may affect the properties of the material.

SAFETY PRECAUTIONS

SD 90 DÉCOR•MICRO FLEX contains cement which acts as alkaline with water and perspiration, and may cause an allergic reaction.

- Always wear appropriate protective equipment for eyes and skin (protective clothing, gloves and goggles).
- If skin contact occurs, rinse well with plenty of clean water.
- In case of eye contact, rinse well with plenty of clean water and get medical advice immediately.
- Please read the relevant Safety Data Sheet for further and complete instructions about the safe use of the product.
- **PRODUCT FOR PROFESSIONAL USE.**

CONSUMPTION

About 1.5 kg/m² for 1 mm layer thickness.

PACKAGING - STORAGE

Available in:

- 10kg plastic containers
- 25kg paper bags.

Shelf life: At least 12 months from production date, in original unopened packaging, protected from moisture and direct sun exposure.

WARNING

The technical characteristics and recommendations for the use and application of the **FINOMIX** range of products are based on the knowledge and experience of the company. The above information shall be considered merely indicative and subject to confirmation after long-term practical application. For this reason, anyone who intends to use the product must ensure that it is suitable for the envisaged application. Since the specific site conditions during the applications are beyond the control of our company, the user alone is fully responsible for any consequences deriving from the use of the product. **FINOMIX** has the right to modify the properties of its products without prior notice. This release voids any previous publications issued for this technical specifications sheet.

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