



SD 80 DÉCOR•FLEX

Flexible microcement decorative mortar for floor & wall applications

polymer-modified - water resistant

DESCRIPTION

Ready-mixed, fiber-reinforced cementitious mortar for creating smooth surfaces, using the traditional surface finishing technique on interior and exterior walls and floors.

It exhibits high flexibility, 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.

It can be easily coloured with **NATURAL COLOURS** pigments in powder form.

APPLICATIONS

SD 80 DÉCOR•FLEX is used on floors and walls, indoors and outdoors, on concrete substrates, reinforced plaster, gypsum boards, cement boards, old floors (mosaic, natural stone, tiles), as well as for special constructions such as pools, custom-made bathtubs and washbasins, furnishings, stairs, etc., adding to constructions the unique aesthetics of Cycladic architecture.

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.
- Doesn't develop mould which makes it ideal for areas with constant presence of moisture.
- Excellent architectural proposal for a modern, as well as timeless aesthetic.
- It combines the minimalistic, neo-industrial aesthetics along with the traditional Cycladic architecture.
- 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.
- For flooring applications it is necessary to create expansion joints at 25-30m² and peripheral joints 5-7mm in width.
- Surfaces are treated with bonding primer (**FINO•CONTACT**) before application. On floors it is even 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) the part of the quartz sand that is not adhered on the primer layer has to be removed using a vacuum suction machine.
- The content of the bag (25kg) is added into 4.75-5.00 kg of potable water under continuous stirring until a homogeneous mortar without lumps is formed, having the necessary workability. In case you desire to colour **SD 80 DÉCOR•FLEX** 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 **SD 80 DÉCOR•FLEX**. Mixing of **SD 80 DÉCOR•FLEX** can be done with a mortar mixer, a low-speed electric mixer, or even by hand.
- The mixture is applied in two layers. The second layer is applied after the first one has dried completely.

- An alkali resistant mesh of 140-160 g/m² and 4x4mm has to be embedded in the first layer as soon as it is applied. The mixture is trowelled on the surface with a toothed trowel and consequently the mesh is pressed inside the layer with the opposite side of the trowel.
- Each layer should not exceed 4-5mm in thickness.
- As soon as the surface has stiffened enough, it is rubbed with a wet sponge and smoothened with a flat trowel.
- Finally, the surface is smoothened by pressing gently with the trowel until the desired final effect is achieved.
- To avoid cracking of the surface it is advisable to protect the finished surface for at least the first 48 hours, especially during hot or windy weather.
- After 7-10 days, depending on the climate conditions, when the material sufficiently dry (<4% residual moisture), a water-repelling or oil-repelling barrier can be applied on it to protect it from spoiling.
- For floor applications it is recommended to protect the final surface using the polyurethane protective coatings **DECODUR COAT•PU** selecting either a matte or gloss finish.

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.
- During extreme ambient conditions (high temperature, strong wind) make sure to dampen the surfaces regularly, in order to prevent dehydration and the formation of surface cracks due to plastic shrinkage.
- On floors it is necessary to create expansion joints at 25-30m² and peripheral joints 5-7mm in width.

TECHNICAL CHARACTERISTICS

PCC R2 ACCORDING TO EUROPEAN STANDARD EN 1504-3

Appearance		Powder		
Colour		White / Coloured		
PROPERTY		UNITS	STANDARD	VALUE
Bulk density		kg/lt		1.5
Mixing water ratio		lt/kg		0.2
pH				> 10
Density of the mix		kg/lt	EN 1015-6	1.95
Workable time		h	EN 1015-9	1
Maximum thickness per layer		mm		3-10
Ready for foot traffic		h		12
Application of protective coating		d		7-10
Mechanical strength after 28 days dry storage	■ Compressive	N/mm ²	EN 12190	≥ 20.0
	■ Flexural	N/mm ²	EN 12190	≥ 7.0
Adhesion with substrate after 28 days		N/mm ²	EN 1542	≥ 1.5
Capillary water absorption		kg·m ⁻² ·h ⁻²	EN 13057	< 0.3
Temperature resistance		°C		-30 to +90
Reaction to fire		Euroclass A1		

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 80 DÉCOR•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:

- 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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