

# PAVIMENTAZIONE SAN MARCO

## Self Levelling, Ecologic, Highly Resistant Floor Finishing

### Characteristic

**PAVIMENTAZIONE SAN MARCO** is a two-components product, environmental friendly, for interior-floor finishing. It consists of an appropriate mixture of alkaline-earth metals oxides, inert sands of selected granulometry and quality and specific additives that mixed with an appropriate saline solution produce a very flowing mix, easy to spread and to dye, allowing to create thin screeds with a very high mechanical strength and wear resistance. The natural colour of **PAVIMENTAZIONE SAN MARCO** is a light yellow and could easily be dyed with oxides to match the needed colours. It is characterized by a total absence of hydraulic binders or lime of any kind and by a rapid development of its mechanical resistance, without shrinkage-cracks even in wide, monolithic floors. Besides being an ecological product, **PAVIMENTAZIONE SAN MARCO** shows antistatic and antibacterial characteristics.

### Application fields

**PAVIMENTAZIONE SAN MARCO** is an interior-floor smoothing which can be directly used for levelling surfaces with differences of thickness variable from 5 to 15 mm, in new or reconditioned substrate.

### Suitable substrates

- Cement base screeds
- Concrete

### Substrate preparation

The substrates must be dry, sound, dust free and, should they be in contact with the soil, must have an adequate vapour barrier. Remove all the incoherent parts, paints, waxes, oils, rust and gypsum. Cement base surfaces not sufficiently sound have to be removed. Concrete surfaces, especially the dusty or very porous one, will be milled or shot-peened, in order to have a solid and receptive substrate. The substrate, depending on the type of application, will then be primed with a resins dispersion or with appropriate epoxy products (contact our technical department).

### Application methods:

Concrete supports will be primed with the water-base epoxy primer **EKOTOP PRIMER A + B**, obtained by mixing Part A with Part B and subsequently adding fresh and clean water in ratio of 2 parts of water for one part of A+B mix. Spread the primer with broom (preferably) or roller, taking care to distribute the product evenly.

When the primer becomes transparent you can start spreading the levelling slurry **PAVIMENTAZIONE SAN MARCO** in two steps: a first thin layer, as substrate preparation, and then, the following day, the finishing layer of appropriate thickness.

Mix two 25 Kg bags of **PAVIMENTAZIONE SAN MARCO Part A Fine** (50 Kg in total) with a pail of 20 Kg of **PAVIMENTAZIONE SAN MARCO Part B Fine**, pouring first the liquid (part B) in a plastic bucket with sufficient capacity and then, while stirring with a low speed mixer, add the powder and continue mixing up to obtain an homogeneous mixture, without lumps. Let the mix rest for 1-2 minutes.

Should you use **PAVIMENTAZIONE SAN MARCO Grosso**, mix two 25 Kg bags of **PAVIMENTAZIONE SAN MARCO Part A Grosso** (50 Kg in total) with a pail of 17,5 Kg of **PAVIMENTAZIONE SAN MARCO Part B Grosso**, pouring first the liquid (part B) in a plastic bucket with sufficient capacity and then, while stirring with a low speed mixer, add the powder and continue mixing up to obtain an homogeneous mixture, without lumps. Let the mix rest for 1-2 minutes.

For the first layer of **PAVIMENTAZIONE SAN MARCO Fine/Grosso** add to the mix an amount varying from 8 to 10% of spherical quartz with granulometry 0.7-1.2 mm and then spread the final mix on the substrate, at the rate of 4-6 kg/m<sup>2</sup>, as evenly as possible.

The following morning (the material must be hardened enough to walk on it with spiked shoes) proceed with the installation of the topcoat, mixing the two components of **PAVIMENTAZIONE SAN MARCO** without any addition of sand or other filling materials. At this step you can add the dye, generally a mixture of iron oxides, to obtain a final product matching the desired colour. Spread **PAVIMENTAZIONE SAN MARCO** on the floor in a single coat, adjusting the thickness using a metal blade of appropriate size.

Finish the surface with a bubble-breaker roll and/or a spatula, working in a proper manner.

After 3-4 days the product can be smoothed by grinding machine, wet operating and sucking the scraps off, working through a sequence of grain size of the smoothing disc to reach the desired rate of gloss or texture. Once dried, the polished surface can be protected mainly with waxes or treated with a polyurethane, epoxy or acrylic products, depending on the rate of duty you want to obtain. During the curing process some white efflorescence could arise on the surface of the floor, which can be easily removed by a simple washing with water and sucking the liquid off.

### Technical data:

- Appearance Part A Ivory colour powder (bag of 25 Kg)
- Appearance Part B milky liquid (pail of 20 Kg or 17,5 Kg)
- Mixing ratio:  
**PAVIMENTAZIONE SAN MARCO Fine**      **A = 50 Kg (2 bags) B = 20 Kg (1 pail)**  
**PAVIMENTAZIONE SAN MARCO Grosso**      **A = 50 Kg (2 bags) B = 17,5 Kg (1 pail)**
- Average consumption per mm of thickness 2 Kg / m<sup>2</sup>
- Pot life of the mix (20°C) about 30 minutes
- Mixing time 2 – 3 minutes
- Minimum thickness 5 mm
- Maximum thickness 10 mm
- Installation temperature + 5°C / + 30° C
- Shelf life 6 months in an unopened package and in a dry place

| Mechanical Characteristics        | PAVIMENTAZIONE SAN MARCO fino | PAVIMENTAZIONE SAN MARCO grosso |
|-----------------------------------|-------------------------------|---------------------------------|
| Compression resistance at 24 h    | > 30 N/mm <sup>2</sup>        | > 25 N/mm <sup>2</sup>          |
| Compression resistance at 7 days  | > 55 N/mm <sup>2</sup>        | > 40 N/mm <sup>2</sup>          |
| Compression resistance at 28 days | > 65 N/mm <sup>2</sup>        | > 50 N/mm <sup>2</sup>          |
| Adhesion to concrete at 28 days   | > 2 N/mm <sup>2</sup>         | > 2 N/mm <sup>2</sup>           |

### Warning

- Apply exclusively in interiors.
- Avoid to place the in contact with a source of persistent humidity or in constant presence of water.
- Do not apply on frozen surface or with the possibility of frost within 24 hours after the application.
- Do not apply on overheated supports.
- Do not add any other product, use as it is supplied, except for the amount of quartz indicated for the preparation layer.
- Wash the tools and equipments with fresh water, straight after use.

**Mechanical resistance:** The mechanical resistance, shown on the table, are referred to samples of 4 x 4 x 16 cm, prepared in laboratory and aged at 20°C and 90% R.U. Therefore, the data therefore can change if you vary the conditions of mixing and curing.

**Please note:** All the above reported data refer to laboratory tests carried out at constant temperature and humidity, so they can vary depending on the thermo-hygrometric condition at job-site.