

Materia Viva

Traditional lime-based powder wall coating for interior use.

PRODUCT DESCRIPTION

Materia Viva is a powdered mineral wall coating for interior use, based on hydraulic lime, air lime, carefully selected aggregates and rheological modifiers to ensure excellent workability.

Materia Viva is designed to be mixed with natural components - **Materia Viva "Deco Powders"** to create decorative finishes inspired by living organisms and our planet's soil, echoing themes of sustainability.

USES

Materia Viva can be applied onto:

- New and old hydraulic binder-based plasters.
- Gypsum and plasterboard surfaces
- Old paints and organic or mineral coatings that are dry, compact, absorbent and not damaged.
- Varying mineral conglomerates, as long as they are absorbent.

Do not apply it inside shower cubicles.

TECHNICAL FEATURES

- **Binder type:** hydraulic and air lime
- **Appearance:** powder
- **Maximum grain size:** up to 5 mm
- **Mixture life:** about 120 minutes at 25° C, RH=65%.
- **High breathability:** water vapour permeability UNI EN ISO 7783-2: high Sd (equiv. air layer thickness) < 0.10 m
- **Mean water permeability:** permeability to water UNI EN 1062-3: average, $w \leq 0.20 \text{ kg/m}^2 \text{ h}^{0.5}$
- **Drying** (at 25 °C and 65% RH): to touch approx. 2-3 hours; complete after at least 24 hours (depending on thickness applied).

MIXTURE PREPARATION

Preparation should be done by slowly pouring **Materia Viva** into the water and stir slowly with a mechanical stirrer. Add **Materia Viva "Deco Powders"** and mix the mixture for about 3 minutes until fully blended. The resulting mix must provide a uniform, thixotropic and lump-free mortar, which is why homogenisation stirring cannot be performed manually.

Allow to stand for 5-10 minutes before application.

Do not use the product beyond the pot-life, not even if the mixture viscosity seems to allow it.

During application, do not add additional water to reduce viscosity, as this compromises the mechanical properties.

MIXING RATIOS

15 kg Materia Viva	+ 10 kg MV D.P. Cocciopesto (earthenware)	+ 7-7.5 l of water
15 kg Materia Viva	+ 5 kg MV D.P. Pomice (pumice)	+ 6-6.5 l of water
15 kg Materia Viva	+ 5 kg MV D.P. Conchiglia (shell)	+ 4.5-5 l of water
15 kg Materia Viva	+ 1 kg MV D.P. Sughero (cork)	+ 6.5-7 l of water

Because they are natural products, small variations may occur between batches in the amount of water in the mix and in the physical and colour characteristics of the aggregates used, without compromising the final appearance.

COLOURING

- It is possible to colour **Materia Viva** by pouring the water needed to prepare the mortar into a large, clean container and adding the desired mixture of dyes.
- The mixing water must be dosed and kept constant for the subsequent colouring of the product.
- Slowly pour **Materia Viva** into the water. Mix with a mechanical stirrer slowly, without forming lumps; then add **Materia Viva 'Deco Powders'** to the mortar, and mix slowly with a mechanical stirrer.
- Allow to stand for 5-10 minutes before application.
- Changing production batches may result in different final colours.

BACKGROUND PREPARATION, AND APPLICATION

(Referred to environmental conditions T=25° C, RH=65%)

The surface must be completely smooth, dry and free of dust, and of humidity-salt stains.

Remove any traces of release agent.

Remove the degraded or detaching parts and dirt residues mechanically with hand tools or high-pressure hydro washing. Protect the exposed reinforcement rods and fill hollows with appropriate non-shrinking mortars. Before application, wait for the backgrounds to dry fully. Once the background is dry and compact, use a brush to apply one diluted coat of **Decofix** (micronized wall fixative).

For even non-flaking backgrounds, as an alternative, use a brush to apply a coat of diluted **Novaprimer** (water-based pigmented acrylic fixative).

To prepare the background, we recommend applying one or two coats of **Archi+ Fondo** (mineral primer plaster).

Due to its grain size and absorption, **Archi+ Fondo** helps to deposit the correct amount of **Materia Viva**, give control over the thickness applied, and makes the drying of **Materia Viva uniform and homogeneous**.

Wait until the background is completely dry. Then use a stainless-steel trowel to apply a layer of **Materia Viva** mixed with **Materia Viva "Deco Powders"**. Work on the surface while it is still wet, depending on the desired aesthetic effect.

For aesthetic or site requirements, an additional layer of **Materia Viva can be applied**.

To enhance the appearance of **Materia Viva** we recommend sanding the surface dry using a random orbital sander with abrasive grit of 80-100.

RECOMMENDATIONS

The material must be applied while protecting it from heat changes throughout the application cycle.

As drying and carbonation are greatly affected by heat and humidity, apply the product at air and substrate temperatures of 10°C to 35°C, and relative humidity < 75%; substrate humidity must be < 10%.

The exposure to low ambient temperatures of surfaces treated with mineral finishes can cause bleaching of the finish during the carbonation process.

This phenomenon may prove to be irreversible.

We recommend finishing each job with materials from the same production batch.

EQUIPMENT CLEANING

With water, immediately after use.

YIELD

Yield may vary depending on the type of background, its absorption and application method.

We recommend checking actual yield by making a preliminary test on the specific background.

The yield per layer refers to the mixture of **Materia Viva + Materia Viva Deco powders + water**

Yield: 2,0-4,0 kg/m²

COLOURS

Once dried **Materia Viva** takes on a natural white colour. Its shade can be modified by adding **Materia Viva "Deco Powders"**. In addition, the colours of the **Materia Viva folder can be reproduced**.

PACKAGING

Materia Viva 15 kg bags

Materia Viva Deco Powders Cocciopesto (earthenware) 10 kg plastic bin containers

Materia Viva Deco Powders Pomice (pumice) 5 kg plastic bin containers

Materia Viva Deco Powders Conchiglia (shell) 5 kg plastic bin containers

Materia Viva Deco Powders Sughero (cork) 1 kg plastic bin containers

STORAGE LIFE CONDITIONS

The material has a shelf-life in the original well-sealed bag of about 12 months from the date of production, provided it is stored in a covered warehouse at a temperature between +5° C and +35° C.

SAFETY RECOMMENDATIONS

Irritating to the respiratory tract and skin / Risk of serious damage to eyes / May cause sensitisation by skin contact / Keep out of the reach of children / Do not breathe the powder / Avoid contact with the skin and eyes / In case of contact with eyes, rinse immediately with copious water and seek medical advice / Wear suitable protective clothing, gloves and eye/face protection / If swallowed, seek medical advice immediately and show this container or label.

The product must be transported, used and stored according to current hygiene and safety regulations; allow residues dry completely and dispose of them with special waste.

For further information, see safety data sheet.

The SAN MARCO GROUP guarantees that the information in this data sheet is given to the best of our experience and technical and scientific knowledge. However, because application conditions are beyond our control, we cannot assume responsibility for the results obtained from its use. We recommend always checking the actual suitability of the product to each individual case. This sheet cancels and replaces all previous ones.