

Document type **Technical Data Sheet**

Name	SCAGLIOLA PLUS
Description	Natural lime and cement-based material for decorative finishes on interior and exterior wall surfaces, columns, interior floors, or interior furniture surfaces. Scagliola is a decorative technique that dates to the 16th century, originating in Italy. It was widely used during the Baroque period in Italy and spread to other parts of Europe, where it was utilised in the decoration of churches, palaces, and other grand buildings. The Scagliola technique creates the illusion of stone surfaces like marble, limestone, and alabaster by blending fine plaster with pigments. SCAGLIOLA PLUS by STUCCO ITALIANO delivers the same beautiful result but with lower effort and cost, and increased durability. The original technique involves the use of a gypsum-based plaster, applied in large thicknesses, and is a time-consuming process that requires skill and patience, making it less accessible for larger projects or tight deadlines. Unlike the original material, STUCCO ITALIANO's SCAGLIOLA PLUS is lime and cement-based and can be applied in minimum thickness (only a few millimetres), allowing for a much faster and easier application. Furthermore, unlike gypsum, lime and cement are more durable and less affected by moisture.
Composition	Hydraulic lime, white cements, marble powder
Grain size	500 microns
Appearance	Powder
Colour	White, it can be tinted to any colour using STUCCO ITALIANO COLOUR SYSTEM
Packaging	16 kg net polyethylene containers
Application	By hand, see below for required tools
Type of Surface	Interior and exterior wall surfaces, columns, interior floors, or interior furniture surfaces, previously coated with one layer of PASTELLONE MEDIUM. Refer to this product's TDS for info on its application and proper primer for each substrate type.
Dilution	Approx. 20% with water (200 ml of water per each kg of SCAGLIOLA PLUS powder.
Drying	6 hours at 20°C / 68°F to the touch 72 hours at 20°C / 68°F below the surface 150 days stable
Application temperatures	min 5 max 30°C – R.U. < 85% ca
Coat Thickness	Approx. 3-5 mm
Consumption	Approx. 5-10 kg / sqm
VOC Classification	EU Directive 2004/42/CE: EU limit value for this product (cat A/I – water-based decorative effect coating): 200 g/l (2010). This product contains less than 1 g/l of VOC.
Specific Weight	1.4 ± 0.2 (kg/l)
pH after 30 days	11.5 ± 0.50
Pencil Hardness	ASTM D3363- Pencil hardness 6H
Pot life	2 hours on average

Shelf life	24 months when stored according to the recommended guidelines
Storage	In original sealed packaging between 5° - 35°C in a dry, dark environment
Safety Norms	Irritating. / Risk of serious damage to eyes. / Irritating to the skin. / Keep out of children. / Avoid contact with eyes. / In case of contact with eyes, clean immediately with water without rubbing them, and consult a doctor. / Wear suitable gloves and eyes / face protection. / In case of ingestion of the products, consult immediately a doctor showing him the can or the label of the product. Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments. The product must be transported, used and stored according to current standards of hygiene and safety.
Disposal	Product must be disposed of according to norms and regulations in force. Containers must be sent for recycling. Follow directions on the packaging
Application	<p>SCAGLIOLA PLUS is a premium product tailored for professional artisans. Below is a concise guide to its application. However, for a comprehensive understanding of this material and its application, we strongly recommend attending one of our training classes.</p> <p>To begin, ensure the substrate is prepared with a single coat of STUCCO ITALIANO's PASTELLONE MEDIUM. For correct application and information on the suitable primer for each substrate type, consult the Technical Data Sheet of PASTELLONE.</p> <p>Once the first coat of PASTELLONE MEDIUM is fully dry, proceed with SCAGLIOLA PLUS application. Work on a wide, clean table with a smooth surface. To dilute the SCAGLIOLA PLUS powder, use either of the following methods:</p> <ol style="list-style-type: none"> 1. Mix the required quantity of powder material with a little water in a bucket to create a thick mixture, similar to that of bread dough, which can be easily worked with hands. Mix well using a standard drill mixer. 2. Create a mound of powdered material with a hole in the centre and add clean water to the hole. Mix well by hand and keep adding SCAGLIOLA PLUS powder until you reach a malleable consistency than can be easily worked by hand, very similar to that of bread dough. Knead well and create a ball of material. <p>If you choose method 1, you will still have to work the material by hand, slowly adding SCAGLIOLA PLUS powder and kneading it until you obtain the right consistency.</p> <p>Repeat the process for all the desired shades, by adding colourants directly to the bucket if using the drill mixer, or to the water if mixing manually. You will thus have several balls of material, each in a different shade.</p> <p>Flatten each SCAGLIOLA ball separately, by pressing them slightly with your hands, to create thinner "loafs" that can be piled one on top of the other. Layer flattened balls of different colours on top of each other, ensuring they adhere firmly to one another. Various techniques can be employed for different effects, such as adding smaller balls of white SCAGLIOLA PLUS between layers, or inserting a single layer of strongly coloured SCAGLIOLA PLUS in the middle of the layer block, to create marble veins-like effects in your Scagliola finish.</p>

Once you have added all the balls, press the mass of material from all six sides, to compress it but without twisting it too much. You thus achieve a block.

After creating the block of material, cut slices vertically with a long knife, each approximately 5 mm thick. It is important to cut the slices vertically, that is, perpendicularly to the layers, to ensure all coloured layers are present in each slice.

With a brush, apply a coat of white SCAGLIOLA PLUS diluted to a milky consistency on top of the PASTELLONE surface. This will serve as “*boiaccia*” (grout), that is, a gluing layer that will secure the slices to the substrate.

Start placing the slices, one at a time and next to each other on the PASTELLONE surface. Place them closely together on the substrate so no gaps are left between them. After placing a few slices, flatten them by hitting them repeated times with the flat part of a Swiss bricklaying trowel.

Once you have completely covered your substrate, you can apply another thin layer of *boiaccia* on the surface. Then use a rolling pin or wallpaper roller to firmly flatten the entire surface, connecting the slices seamlessly. Once you have achieved a uniform flat surface, cover it well with a thin plastic sheet and allow it to rest for approximately 12-24 hours.

The next day, remove the plastic from the surface, which should be now dry but not completely, and scrape it uniformly with a wood or gypsum scraper to reveal the pattern of colours and shapes. Let it to dry completely, uncovered.

Once completely dry, fill any holes or cracks with white *boiaccia*, applying it with a brush or spatula.

Finally, use a sanding machine to sand the surface progressively with different grits, starting with P120, followed by P220, P400, P600, P800, P1200, P1500, P2000, P3000, or until achieving the desired gloss.

The finish can be protected with the same treatments used for PASTELLONE.

Maintenance

No special work is required in maintenance, just remove the dust periodically. Protect the coating from any contact with liquid either rain or continuous water flowing down the wall. If any liquid such as coffee is spilled on the surface, clean immediately.

Tools

Drill mixer or beater, empty buckets, brush, long knife, Swiss bricklaying trowel, roller pin or wallpaper roller, gypsum/wood scraper, sanding machine with sanding disks. Clean tools with water immediately after use

We have drawn up the material presented above to the best of our technical and experiential knowledge. Nevertheless, our suggestions and recommendations are not guaranteed. All responsibility for the obtained results lies solely with the method and conditions adopted for the application of the product. Such indications constitute valid support for verifying the product's suitability for the specific case. We reserve the right to make modifications to the present information without previous warning.