

Document type	Technical Data Sheet
Name	PETRAE
Description	Natural, lime-based material for decorative finishes on interior and exterior wall surfaces. Petrae evokes the aspect and feel of real stone. The colour is a light, yellowish beige, speckled with small, coloured stones, that give the finish a natural depth. It is an ideal coating for both walls and furniture, such as tables and kitchen tops.
Composition	Hydraulic lime, cement and selected marble powders
Versions	VICENZA, SORRENTO and SERENA
Grain size	Vicenza: 1 mm; Sorrento and Siena: 1.2 mm
Appearance	Powder
Colour	VICENZA is a light beige, speckled with tiny dots of red, beige and grey stone SORRENTO is a light terracotta, dotted with red, brown, beige and grey stone SERENA is a very light grey, speckled with tiny dots of grey, brown and beige stone
Packaging	16 kg net polyethylene containers
Application	By hand, with a steel trowel
Type of Surface	Interior and exterior walls <u>New Wall Surface</u> Plaster: no priming necessary Gypsum / Plasterboard / Medium Density: one coat of QUARTZ PRIMER <u>Old Wall Surface</u> Plaster: one coat of QUARTZ PRIMER Fast drying / Limewash: brush down and apply one coat of QUARTZ PRIMER Polished Lime: Abrade, brush down and apply one coat of QUARTZ PRIMER Washable Paint: one coat of QUARTZ PRIMER
Dilution	Put the 16 kg of powder into a tub with 7 L of water and mix (For every 1 kg of powder, add 437 ml of water to achieve the correct dilution ratio). Wear a protective mask and glasses when mixing.
Consumption	2.5 – 3.5 kg
Drying	5 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	1.2 – 1.7 mm for a total of 2-3 coats
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	12.5 ± 0.50
Vapour Permeability	SD ~ 0,04 m (DIN 52 615)

Flammability	European Class of Reaction to Fire A1: non-combustible, no contribution to fire
Mould Resistance	ASTM D 3274 – “Standard Test Method to evaluate the degree of surface disfigurement of paint by microbial, fungal and algae growth. Result: Front Panel 10/10/10 Back Panel 10/10/10 = no growth
Scrub Test Resistance	ASTM D 2486-06 method A = was used: scrubbing fine sand + metallic brush for 10,000 cycles
Impact Test	UNI EN ISO 6272-2-2006. 1 kg doming punch was dropped from different heights and only at the height of 8 cm., it left a 5.5 mm. dent in the surface and a tiny crack appeared around its circumference.
Pencil Hardness	ASTM D3363- Pencil hardness 5H
Shore Hardness	Norm ASTM 2240 average
Adhesion	Norm UNI EN 13892-8 2004 average value = 2,0
Pot life	4 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 Instructions	<p><u>On Furniture:</u></p> <p>To treat furniture or other wooden surfaces, we begin by applying two coats of our PRIMER Q, aiming to make the surface as waterproof as possible. Once the primer is completely dry, we proceed with applying the Base Plaster for Furniture using a trowel. This unique plaster is enriched with fibers and resins, providing elasticity to accommodate wood movement without detaching.</p> <p>Allow the base plaster to dry completely (about 24 hours). After the base layer dries, it's time to apply the first coat of PETRAE. This material comes in powder form and must be mixed with water according to the proportions specified above. It's crucial to achieve a consistency that facilitates application with the trowel and spatula. Ensure the first coat of PETRAE is as uniform as possible. Leave it to dry until the glossy effect caused by water on the surface is no longer perceptible, then proceed with the second coat of PETRAE. Here, the goal is to achieve a smooth, hole-free finish to minimise subsequent steps. To achieve this, smooth the surface several times with the trowel, using both the blade edge and, by adding a bit of water with a spray bottle, the flat part of the trowel itself in a random circular motion on the wet surface.</p> <p>Finally, after two days, lightly sand the surface using an orbital sander with P120 and P180 sandpaper.</p>

On Walls:

Apply a coat of QUARTZ PRIMER to the surface. Once the primer is completely dry, proceed with applying the first coat of PETRAE using a trowel. The material should be diluted according to the ratio specified above to get a paste that can be easily applied with the trowel or spatula. Allow the first coat to dry completely (about 24 hours). After the first layer dries, it's time to apply the second coat of PETRAE, ensuring it's as uniform as possible. Leave it to dry until the glossy effect caused by water on the surface is no longer perceptible, then proceed with the third coat. Here, the goal is to achieve a smooth, hole-free finish to minimise subsequent steps. To achieve this, smooth the surface several times with the trowel, using both the blade edge and, by adding a bit of water with a spray bottle, the flat part of the trowel itself in a random circular motion on the wet surface.

Finally, after two days, lightly sand the surface using an orbital sander with P120 and P180 sandpaper.

Repairs:

Any fillings, following the sanding, can always be done with the PETRAE material, taking care to remove any dust before application.

Protective Treatment:

A final protective treatment can be done with our transparent varnishes: PU1C or SOFT TOUCH. The latter has a pleasant soft effect to the touch, and excellent protection against liquids.

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

SI TROWEL, SCRAPERS, CORNER TROWEL
Clean 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.