



Product Definition:

Water-based protective and beautifying product composed of water-based resins, featuring great transparency and a remarkable resistance to yellowing. The treated surface material is waterproofed, with great resistance to alkalinity.

Suitable for walls and floors with moderate human transit, particularly private homes.

Ideal for the application on our Microcement and Microconcrete system in floors and walls. It can also be used in the varnishing of mortar and wood decks.

Physical Location: Indoors and outdoors.

Technical Data:

PH: 7 ± 0.5 DENSITY: 1.05 ± 0.05 g/cm³

PRESENTATION VISCOSITY: Slightly milky liquid that becomes transparent when dry.

QUALITIES: Glossy and matt. They can be mixed together to obtain different glossy finishes.

PACKAGING: 1 and 5lt.

LIFE SPAN IN CONTAINER: Approximately 14 months in stable environmental conditions +5°C (min.) and +32°C (max.) without opening the tin. Avoid frost and high temperatures.

Application Technical Data:

APPLICATION TOOLS: Air gun, roller, brush.

- Airbrush projection (gun): the undiluted Varnish can be applied with a peak of 1.6 or 1.8 and 2.4 atm pressure.

- Using airless: 13-15 size nozzles.

- Rollers: Short hair lacquerers with special fibres for water systems.

COLOURS: To obtain a decorative effect or retouch the microcement, it can be coloured with Dyes/Toners without exceeding 2.5% by weight.

THINNER: Ready for use, if necessary for any specific application with water, 2% maximum.

MAXIMUM THICKNESS PER COAT: 60 microns.

INTERVAL BETWEEN COATS: 8-10 hours under 20°C and 55% relative humidity conditions. This time varies depending on to the thickness of the applied coat and the temperatures.

DRYING-HARDENING: Under 20°C and 55% relative humidity conditions

- In locations with only moderated human transit and only if it is inevitable, a minimum of 72 hours should pass after the application of the last coat before the floor could be "stepped on". Under no circumstances it can be cleaned or scrubbed until 7-10 days have passed.
- This product's maximum performing hardening is after 30 days.

MAINTENANCE: Only water, neutral soap, and specific platform cleaners.

Maintenance waxes applied on the last coat of varnish can also be used as an anti-scratch system.



Application conditions:

PREVIOUS PREPARATIONS: Surfaces must be dry, firm/set up, well adhered, free of salts, free of any biological contamination such as mould, algae, lichens, free of environmental contamination (grease stains, soot, substances of unknown nature, etc.); i.e., free of any visible or invisible substance or contaminant that prevents the perfect attachment and finish of the water-based Single Component Varnish or its previous primers, if any.

SUPPORTS AND ACTUATION SYSTEMS

<i>Microcement bathrooms</i>	<i>in</i>	Apply 4 coats of undiluted WATER-BASED ONE COMPONENT VARNISH . *If higher chemical resistance is desired, the matt, gloss, or satin FARBETANO AR Two-component Polyurethane Varnish can be applied.
<i>Microcement Kitchens</i>	<i>in</i>	Same as in the previous case.
<i>Microcement in House floors</i>		Apply 4 coats of undiluted WATER-BASED ONE COMPONENT VARNISH . *If higher chemical resistance is desired, the matt, gloss, or satin FARBETANO AR Two-component Polyurethane Varnish can be applied.
<i>Microcement for Floors in commercial premises and furnish</i>		Apply 4 coats of undiluted WATER-BASED ONE COMPONENT VARNISH . *If higher chemical resistance is desired, the matt, gloss, or satin FARBETANO AR Two-component Polyurethane Varnish can be applied.
<i>Microcements Outdoors</i>		Apply 4 coats of undiluted WATER-BASED ONE COMPONENT VARNISH . *If higher chemical resistance is desired, the matt, gloss, or satin FARBETANO AR Two-component Polyurethane Varnish can be applied.
<i>Unpolished cement floors</i>	<i>smooth</i>	Check that the smoothing coat is not dusty/uneven. If so, it can be strengthened with the ULTRAFINE PRIMER . Apply 4 coats of undiluted WATER-BASED ONE COMPONENT VARNISH . *If higher chemical resistance is desired, the matt, gloss, or satin FARBETANO AR Two-component Polyurethane Varnish can be applied. *This system is not suitable for acid-polished cement mortars.
<i>Semi-polished cement floors</i>		Same as in the previous case. *This system is not suitable for acid-polished cement mortars.
<i>Concrete</i>		Apply 4 coats of undiluted WATER-BASED ONE COMPONENT VARNISH . *Be careful with the release agents.
<i>Wood and wood shaving composite</i>		Apply 1 coat of WATER-BASED BASE COAT for Wood and 3 coats of undiluted WATER-BASED ONE COMPONENT VARNISH afterwards. Indissoluble system. *On soft or oily wood, it is necessary to test this system beforehand.



Observations on the application of varnishes on Pisa Microcement for achieving an effective protection:

- The smoother the Microcement surface is, the easiest it will be to close the pore and, therefore, to achieve waterproofing.
- If applied manually, perform the varnishing carefully and by leaving a coat.
- For the *water-based One Component Varnish* to have good hardening, waterproofing, and chemical resistance properties, 10-15 days must elapse. For its maximum performance, 30 days must elapse.
- Maintenance of the Microcement finish with the water-based One Component Varnish is the same as for a varnished wood platform: Specific cleaners and neutral soaps.

GENERAL OBSERVATIONS

➤ Environment and surface working temperature: min. 12°C-max. 32°C.
➤ The smoother the surface to work on is, the more the varnish coats will tolerate dirtying and wearing away by contact.
➤ The less texture of the varnish coat applied, the easier it will be to clean and maintain, especially on floorings.
➤ The gloss level may be more or less intense depending on the amount of coats and the application system, as well as the finishing of the microcement.
➤ If a final coat of Farbetano AR Varnish is applied, the previously applied Single-Component Varnish must be allowed to dry at least 30 hours under natural environmental conditions of 20°C and 55% relative humidity before proceeding with this.
➤ When varnishing between coats, you should always enter the floors with clean footwear or plastic covers.
➤ The water-based One Component Varnish exhibits a low chemical resistance to universal or similar thinners not reflected in the chemical resistance chart. Clean immediately so that the varnish film does not deteriorate.
➤ In locations such as: bars, kitchens, restaurants, hotels, public or private bathrooms, where there could be aggressive chemical substances or surfaces with intense traffic, apply Farbetano AR Varnish (two-component aliphatic polyurethane).
➤ Check that concrete and mortars do not contain any harmful water-resistant material that may affect adhesion or generate contamination that will appear as stains.
➤ Calculation of maximum moisture of the surface for the application of water-based One Component Varnish: 5 to 7%.
➤ Preserve from the direct action of water when it is being applied outdoors.
➤ The varnish is not suitable for continuous immersion. If the water remains occluded after 72 hours, i.e. without evaporating, it can leak.
➤ The natural finish slightly intensifies the tone of the treated material.
➤ On Medium and Thin Microcement, also on Base and Finish Microconcrete, it can be applied directly.
➤ Pisa is exempt from responsibilities for damage and problems in regards to fissures, cracks, stains, and detachments caused or produced by deficiencies of the direct surface or structure.



Chemical resistance chart - This chart is for guidance purposes only. We recommend that any substances spilled be cleaned up immediately.

<i>General conditions:</i> Resistance after 28 days at average environmental conditions of 20°C and 55% relative humidity and the consumption indicated in the theoretical yield, and the film formed must be pore-free.		
	Matt resistances	Gloss resistances
98% acetone	Weak - the varnish coat is not destroyed, but there are marks left. Therefore, clean immediately after pouring.	Weak - the varnish coat is not destroyed, but there are marks left and the film can be tinted. Therefore, clean immediately after pouring.
Wine	Good within 8 hours max.	Good within 8 hours max.
Vinegar	Weak - the varnish coat is not destroyed, but there are marks left. Therefore, clean immediately after pouring.	Weak - the varnish coat is not destroyed, but there are marks left and the film can be tinted. Therefore, clean immediately after pouring.
96% alcohol	Weak - the varnish coat is not destroyed, but there are marks left. Therefore, clean immediately after pouring.	Weak - the varnish coat is not destroyed, but there are marks left and the film can be tinted. Therefore, clean immediately after pouring.
Olive oil at 100 °C	Good within 8-10 hours max.	Good within 8-10 hours max.
Engine oil Sae - 30 to 100 °C	Good within 8-10 hours	Good within 8-10 hours max.
Hydrogen peroxide	Good within 8-10 hours max.	Good within 8-10 hours max.
Petrol	Weak - the varnish coat is not destroyed, but there are marks left. Therefore, clean immediately after pouring.	Weak - the varnish coat is not destroyed, but there are marks left. Therefore, clean immediately after pouring.
25% ammonia	Good within 1-2 hours max.	Good within 1-2 hours max.
Household bleach	Good within 8-10 hours max.	Good within 8-10 hours max.

THEORETICAL PERFORMANCE: Depending on the absorption, texture, and effect desired, i.e., a more or less vitreous coat, the consumption for an effective protection will be of 1 l per 4.2 m² in 3 to 4 coats.

CLEANING OF TOOLS: Water and soap.

PRECAUTIONS: None in particular, except good ventilation.