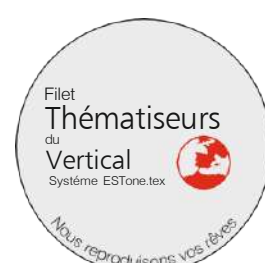


PRESENTATION ESTonetex System

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What is the ESTonetex System?

Within Estecha's technological innovation program, the **ESTonetex System** is a system that includes all the necessary materials for any presentation job.

From a high-performance multifunction mortar. It allows you to create and obtain reproductions of different materials, normally used in construction, such as stone, rock, brick, wood, trunk, etc.

In addition to offering unique finishes, it can be applied both indoors and outdoors, even in underwater immersion areas.



Where is it used?

In new construction it allows to satisfy the particular tastes of each client, in general theming of facades, baseboards, interiors, cellars, gardens, waterfalls, fountains, swimming pools, etc.

In private homes, hotels, bars, zoos, shops; allows you to create the desired environments with unique finishes.

In rehabilitation of facades, statues and Historical Heritage with the ESTonetex-Restaura mortar, and its specific accessories; allows recreating the original appearance of all kinds of elements such as facades, walls, historical heritage or castles.

In theme parks, aquariums, and places that require great durability, ESTonetex-Extreme mortar is undoubtedly the most suitable. It allows the reproduction of all kinds of materials, as well as offering unique resistance and durability.



For whom?

Its versatility makes it essential for mainly Theming professionals, as well as for builders, restorers, landscapers, decorators, painters, architects, engineers; and hotel and urban promoters.

Technical aspects of the ESTonetex System.

The ESTonetex mortar, thanks to its components, acts as follows:

*Creates pores with a stable volume, whose appearance does not depend only on the size of the grain, but the special components make it possible to restructure it later with the tools.

*The volume of pores in the mass of this mortar, with its special porogenic agents, is dimensioned in such a way that it allows the surface to be worked easily during the first 6-8 hours after its application.

*This mortar is also distinguished by its extraordinary thixotropy, adhesion, stability and zero shrinkage; in addition to allowing layers of up to 20 cm in total.

After initial drying, the ESTonetex mortar components form a gel by chemical reaction with the dried mortar components. Due to the formation of this gel, water is retained and the dough remains moldable for a long time. Once the advanced chemical reactions have taken place, the final hardness increases and the propensity for crack formation is reduced. The generated gel unites with the mortar, forming a water-insoluble crystal, which covers and protects the color pigments. The chemical reaction described does not prevent the physical drying of the other components, such as the hydraulic setting of cement, lime, but complements and enriches it.

The components and complements of the ESTonetex System contain binders of high technical value, some of which are already based on nanotechnology, with high resistance to ultraviolet radiation and alkalinity, in order to obtain moldable and adherent coatings with optimal general resistance, as demonstrated in test according to the European Standard DIN EN 12620, where the ESTonetex System obtains the highest possible qualification F1 – CS-IV – W2.

Due to the natural differences in the degree of absorption of the color of the subsequent finish, an inhomogeneous reproduction can be obtained, as appropriate, and therefore faithful to that of the natural stone or the reproduced material. This incomparable reproduction of natural color is achieved mainly because the chemical reaction is much slower and because of the exclusive use of MIXOL oxide pigments. The gel retains water for longer and absorbs moisture from the glaze, so that its coloring becomes more intense.



Technical aspects of the ESTonetex System.

In addition, depending on the accidental formation of pores in the mortar by porogenic agents, surfaces with differentiated absorption are formed. The color absorption of the glaze decreases as curing progresses due to the chemical reaction of the binders and solid, weather-resistant, water-insoluble surfaces are obtained.

Our ESTonetex System allows applications from 1 cm to 20 cm, even on bases with inverted, vertical, irregular loads, without sagging in the curing process. Thanks to its great thixotropy.

The controlled setting allows the texturing workability to be prolonged for a long time, reaching a considerable degree of hardness after 24-48 hours. The behavior of the complete system, in contact with humidity, does not produce the usual formation of hygroscopic salts from inside the mortar.

With the glazes and finishes of the ESTonetex System, a wide variety of polychromatic finishes can be easily achieved. With oxide colors of high resistance to degradation by UV rays, rain or frost, leaving the oxide pigments crystallized and integrated into the same texture of the mortar, penetrating the pores without forming a skin; therefore an exceptional degree of naturalness and durability is achieved. In addition, thanks to the qualities provided by the diversity of complementary products that make up the ESTonetex System, with nano-technological qualities, optimal protection is achieved against climatic agents and other industrial and use factors that nature itself does not possess.

NOTE: If you need any type of information regarding the environmental impact or the degree of danger of our products with respect to the elements of both flora and fauna that may be in contact with them, do not hesitate to ask us and very we will gladly forward it to you. Although they we can advance that they do not constitute any type of risk, since the materials that are going to be in direct contact even many times through an aqueous medium and that make up our ESTonetex System, are non-toxic materials both for the manipulation of the applicators as well as for any type of species, both flora and fauna.



The benefits of the ESTonetex System.

Estecha Reproducciones, as a specialist in the sector and in permanent contact with thematizers, applicators and construction managers, has developed a whole system of products that as a whole offer all kinds of solutions perfectly combined with each other, to facilitate and guarantee work in accordance with current market demands. Therefore, when we talk about the ESTonetex System, we are not only referring to the ESTonetex mortar, but we are referring to a complete range of products designed with the most advanced technology, perfectly compatible with each other and which also directly reward the executing party. The work and the end customer, with notable aesthetic, technical and economic benefits.



From the economic point of view, it has been perfectly proven that all kinds of elements that depend directly on the products to be used influence a project as a whole, since these have repercussions in saving execution time, which is undoubtedly the economic factor. More expensive in whatever the project. In the same way, they also influence its prolonged stability over the years, avoiding costly waste of money caused by the innumerable restorations caused precisely by the low quality or poor stability of certain products used conventionally for situations that are very often somewhat special, or even many times certainly critical, as can be any within the theming sector.

The ESTonetex System is designed to save maximum execution time, from the beginning of the project to the completion of the work. Therefore, if we deeply analyze and compare a work to be carried out from the beginning, the materials to be used correspond to a very small % of the overall budget, compared to the execution time. So with the ESTonetex System you have some added values to take into account such as:

*Qualified technical advice to define what type and quantity of products are the most appropriate for each situation. Thus eliminating errors in the choice of materials, as well as excess stocks of products from various brands and formulations of doubtful or untested compatibility.

*You enjoy unbeatable logistics capable of sending materials to any country, as a single provider for all your needs. Avoiding order delays from various suppliers and optimizing their transport.

*Reduction of the execution time of a work, thus reducing daily logistics costs, renting scaffolding, machines and vehicles, travel, accommodation for staff and the workforce itself

The benefits of the ESTonetex System.

As influential technical factors in saving time, we can cite the most relevant:

*You have a CE marked system with unmatched technical advantages and unlimited possibilities. You can apply color and finishes the day after having projected the mortar, preventing on many occasions, having to wait 28 days of setting to be able to give the finishes; As usually happens in conventional theming systems. Since due to the initial alkalinity of the base, it rejects conventional paints and finishes, which end up degrading in a short time, causing extraordinary expenses to carry out repairs.

*The enormous adhesion of the ESTonetex mortar on the base, directly related to the high thixotropy of the material, thus being able to achieve the desired density in a few spray layers, making the resulting mortar more compact and resistant. By avoiding a multi-layer projection to achieve the desired thickness, as occurs with conventional mortars, where their resistance and adherence are diminished due to the consequent false bonding bridges in addition to fruitless losses of time.

*The carving or texturing time once the mortar has been projected is perfectly adapted to the needs of the worker and a rational work plan. This means a time 4 or 5 times higher than any other mortar. With this we avoid the danger of work carried out too quickly due to the short setting time that other mortars give us, obtaining low quality results.

Values such as respect for the environment, stability, durability, health, safety, tranquility, productivity, prestige and profitable economic activities both in the present and in the future; must be taken into account when executing projects of these characteristics. Where each one of the professionals involved as well as the final clients themselves must benefit from each and every one of the advantages set forth above.



ESTonetex System Components.

The **ESTonetex System** is made up of several main products, and other complementary ones, each of them designed to satisfy any need that is required in each of the jobs to be carried out. Therefore, the choice of each one of them will depend on the state of the bases where each work in question is going to be carried out, the type of texture that is intended to be obtained, the chromatic composition that is desired and the type of aggression that each one of the works to be carried out have to suffer and endure.



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The main products of the **ESTonetex System** are grouped into the following families:

***ESTonetex mortars**, with their wide range of formulations, grain sizes and colors.

***Multifunction additives** to provide the ESTonetex mortar with differentiated and incomparable qualities with other mortars.

***Powder patinas** that offer unique textures and finishes.

***Oxide pigments** and monochromatic or polychromatic finishes, specially designed for this type of work, with very natural effects and extremely high stability.

***Special protectors** created to provide the base with the most adequate protection possible against the different physical-chemical aggressions to which it will be subjected (friction, immersion under water, moving water, frost, rain, sun, etc.).



ESTonetex mortars

***ESTonetex Expanded** Projectable thixotropic mortar for professional theming. Its versatility, composition, and technical qualities allow the creation and reproduction of highly realistic surfaces without limit. Its great thixotropy makes it applicable with large thicknesses indoors and outdoors. Applicable by hand or by spraying, available in sandstone, gray and white, and pigmentable with our silicate glaze systems and oxide pigments.

***ESTonetex Restaura Cal Plus** Thanks to its special composition of air lime, it provides a more stable natural curing and is especially indicated for rendering, creating and restoring Historical Heritage, statues, both indoors and outdoors. Combined with the mineral silicate EST-26 Multifilite, it offers great thixotropy and unique mineralization. Applicable by hand or by projection and available in sandstone colour.

***ESTonetex Extreme** Due to its special composition, it provides a highly hard and resistant rendering mortar, for use in highly demanding areas such as aquariums, theme parks, and areas immersed in chlorified water or salt water. Combined with EST-26 or EST-19 additives, it offers unique manageability and resistance. Available in sandstone color, although it can be pigmented during mixing with oxide pigments.



Multifunction Additives

***EST-26 Multifilite:** Concentrated polyvalent consolidating additive, aqueous silicate dispersion, for mass addition to ESTonetex mortars in general. Thanks to its silification power, it provides a notable improvement in plasticity and workability, and allows the application of great thicknesses and extensive surfaces, especially theming, on facades, and restorations. In addition, applied as a surface treatment on mineral bases, it provides an unbeatable colorless primer with a great consolidating effect, which, pigmented with Mixol oxide or applied in the 7 available colors, provides an excellent long-lasting mineral glaze finish. Capable of adapting with unbeatable realism to any type of finishing requirement. EST-26 is one of the main and most versatile components of the system.



***EST-19:** Multifunction additive/protector in aqueous dispersion of Acy-I modified polyurethane, to improve the physical-chemical qualities of conventional mortars, and especially ESTonetex mortars. Contributing with the addition to the mass, a high resistance to humidity, plasticity, thixotropy and allowing the application of great thicknesses in a single layer.



Powder patinas

***EST-Decor:** Through the I+D+I department, EST-Decor was born. They are powder patinas that offer unique finishes and textures. This can be applied both indoors and outdoors, thanks to its components: inorganic pigments, hydraulic lime, powdered acrylic binders, perlite and dispersants. It must be applied with the fresh mortar, or it can be applied dry but it must be mixed with EST-26; to provide a correct grip. Available in 8 colors, although they can be mixed without any problem, to obtain the desired polychromy.



Pigments

***Mixol:** Universal liquid concentrated pigment, it can be used in most paints, patinas, coatings, putties and mortars on the market. It is easy to homogenize and its concentration is very powerful. It is presented in a range of 33 colours, with special mention to LW colours, which have extraordinary UV resistance. and that are compatible for exteriors with glazing systems and EST-26 Multifilite silicate paints.



Paint

***EST-26 Multilite:** Applied as a surface treatment on mineral bases, it provides an unbeatable finish with a great consolidating effect, which, pigmented with Mixol oxide or applied in one of the 7 available colors, provides an excellent long-lasting mineral glaze, capable of adapting to with unbeatable realism, to any type of finishing requirement.

***EST-26 Pigmented:** This product is obtained using EST-26 as a colorless base, with the peculiarity that to obtain the desired color Mixol pigments are requested according to its own chart to obtain the desired color, but it is already prepared. It is usually used for the chromatic finish of large surfaces, generally obtaining similar tones and nuances as a result. This simplifies handling for applicators, since it is often not easy to make the same mixtures of pigments to achieve regularity with the same type of tones and nuances. Usually two or more coats are recommended, to obtain tones, nuances, intensities and, above all, more lasting hardness. Technical sheet here.

***EST-Monocrom:** It is a product that is part of the ESTonetex system, resulting from the fusion in appropriate proportions of silicate-based materials, as well as various oxide pigments whose sum produces a unique color. Through all of this, a product with absolute transparency is obtained, similar to the previous EST-26 with which a homogeneous color can be achieved uniformly in its application. It is widely used for floor treatments, but above all for large vertical surfaces, where a uniform color finish is required without thereby obtaining any type of surface film, as a result of the application.



Waterproof liquids

***EST-3 Plus:** Colorless water-repellent and oil-retardant, concentrated in water, with high resistance to alkalinity, for the long-term protection of ESTonetex mortars and other absorbent mineral surfaces, indoors and outdoors, pavements, facades and in general mineral coatings for buildings. Depending on the concentration, the power of action and the enhancement or absence of enhancement of the natural tone of the base can be regulated. It also works as a protective primer for other breathable finishes. It can be used as a reinforcement in immersion areas and can be applied on recently applied mortars, even when fresh.

***EST-7:** Multipurpose water-repellent in concentrated micro-emulsion miscible in water, with a specialized water-repellent action that prevents the formation of microorganisms, for the long-term protection of ESTonetex mortar and vertical absorbent mineral surfaces, mainly in theming, facades, heritage, and humid areas, both as a final finish, or as a primer for breathable finishes. EST-7 is the most complete and balanced waterproofing agent on the market.



ESTonetex System Components.

Waterproof liquids

***EST-7 Nano Tane:** Concentrated water-based hybrid protector (Low Voc), especially for absorbent mineral bases, mainly on cementitious floors and pavements, as a protective alternative to traditional systems. It provides penetrating protection with repellency against dirt and liquids thanks to its water repellent and oil repellent agents, at the same time slightly superficial protection that increases the natural resistance to wear thanks to a polyurethane fine layer effect (modified polyurethane molecule); which barely affects the transpiration of the support (approx. SD 0.08). Formulated based on a balanced and complex aqueous nano-emulsion of silanes and polysiloxanes, with modified polyurethane. Recommended especially in mineral pavements, especially cementitious ones.



IMPORTANT NOTE: Normally to apply a coating on a cementitious material, it says that you must wait 28 days before applying any type of finish even mortar. But this is not the case of the mineral glazes and paints EST-26 Multilite, EST-Monocrom and the waterproofing agents EST-3, EST-7 and EST-7 Nano Tane, on the ESTonetex mortars. Its high transpiration and studied compatibility with the high pH that occurs during setting, allows the completion of color and water-repellent protection, from 48 hours after the mortar has dried, without risk to the proper setting of the mortar or to its durability of the color finish. There is no other system on the market that allows for the 28-day setting period to be brought forward for finishing with color, with a guarantee of success, since if the 28-day curing period is not expected with conventional products, the mortar will not have the required consistency. As a rule, neither the finishes will resist more than a few months, weeks or days.

Maintenance and renovation.

One of the advantages of using the ESTonetex System is that since the work has been completed it does not require maintenance, except in cases in which a theming has been carried out in a place highly exposed to water; such as waterfalls, pools, fountains or aquariums. Which would need a treatment with a water repellent of the ESTonetex system, before two years of having completed the work.

Our theming system is made up from its beginning to its end, by balanced and mutually compatible materials.

One must also be aware that those used in the last parts of the process, to achieve polychrome effects such as those used for final protection, are impregnation treatments.

From an aesthetic point of view, this type of finish means obtaining finishes of maximum beauty and naturalness, and from a technical point of view, they mean optimized protection where the transpiration values of the mortars used are respected. Contact with CO₂ is maintained, so important to achieve the best performance of cementitious materials.



Maintenance and renovation.

The entry of water is drastically reduced due to the water-repellent properties that they acquire in their most superficial parts, hygroscopic efflorescence is avoided, dirt is prevented from penetrating into the interior of the pores, etc. With this, it is possible to prolong the useful life of the work carried out, and facilitate maintenance and future renewal.

It is understood that these surface protections of the system are exposed to a greater risk of degradation. UV rays, more or less aggressive environments or climates, wind, water and its consequences, degradation by friction, by abrasion, differentiated pressures that water can submit in immersion situations; thermal changes, etc. They are differentiated degradation factors and depending on all these and many other variants of greater or lesser speed.

In summary, we understand that our ESTonetex System represents a technical and aesthetic optimization to the systems that are currently on the market.



Conclusion

The ESTonetex System reports all kinds of advantages and qualities, for more than a decade and to date unknown to the theming sector, both technical and economic. This is accentuated by the meticulous and highly studied application process, where working time is optimized and the use of material is economized. In addition, productivity is increased, reducing general costs and avoiding the typical problems derived from the use of unsuitable materials, such as verdin, efflorescence of hygroscopic salts, mold, humidity, dirt, cracks or fissures. For all these reasons, we invite you to verify each of the advantages that you require and that we have detailed throughout this report through the corresponding support and technical advice from our technicians for each of the related projects in this field.



Image gallery.



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