

INSTRUCTION FOR USE

EDIT 1.00

Natural MicroLayer



DENTAL CERAMIC

ITALIAN STYLE

Natural[®]
CERAMIC
SYSTEM
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Natural[®]

DSL

HT

LF

ZiR

MicroLayer

Stains

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2. EXPERTISE IN DENTAL CERAMICS

NATURAL CERAMIC SYSTEM

Natural Ceramic System (NCS for short) is the Italian ceramic system produced by Tressis Italia srl.

HISTORICAL NOTES: The metal-ceramic technique has been applied in dental technology since the early 1960s. At the beginning, ceramics were fired exclusively on precious gold-based alloys.

With the evolution of dental alloys, various increasingly performing materials have appeared in the dental sector both from an aesthetic point of view and from a physical and chemical point of view.

The growing demand for functionality and aesthetics in ceramic restorations pushes us to produce materials that allow the dental technician to achieve high aesthetic results with ever-increasing quality.

From these assumptions, Natural Ceramic System was born, a ceramic system that benefits from all the excellent workability characteristics of the latest generation materials, offering the technician a material that is easy to use, stable and reliable.

The Natural ceramic system allows you to create natural and aesthetic restorations in a simple and easily replicable way.

NCS is proposed as a tool for solving clinical cases from the simplest to the most complex and individualized.

The traditional layering carried out with the Natural Ceramic System allows to obtain very natural restorations; Furthermore, Natural Ceramic System is rich in additional, special masses to face every aesthetic challenge in a totally personalized

way, making each restoration absolutely faithful to the natural elements that surround it.

Natural MicroLayer is the first glass-ceramic developed for micro-layering on monolithic zirconia and lithium silicate.

Natural[®] DSL
HT
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Stains

3. PRODUCT CHARACTERISTICS

NATURAL MICRO-LAYER

Natural Micro-Layer is a special line of leucite-free biphasic glass-ceramic materials for dental restorations.

It can be used with the micro-layering technique on both opaque and translucent monolithic zirconia (Y-TZP) and pressed lithium silica.

The coloring of the masses is universal and can be modified with Natural Stains and with the CRYSTAL materials for micro-layering.

The very high fluorescence of the Natural Micro-Layer materials allows to obtain an aesthetic result with all types of conventional zirconia with approximate coefficient of thermal expansion (CTE or WAK): $10 \times 10^{-6} \times K^{-1}$ (25-500 ° C).

The composition of Natural Micro-Layer is made up of a skilful mix of elements. The silicates that make up Natural Micro-Layer are generally defined as structural silicates as they form, with the

heat treatment, very stable three-dimensional networks.

This mix of materials gives the ceramic a very low abrasion index, close to natural dentition, allowing natural abrasion of the antagonist and excellent physical and chemical stability in the oral cavity.

The crystalline phase of the ceramic masses performs a dual function, on the one hand it ensures the stability of the shape at high temperatures, on the other hand it controls the thermal expansion coefficient (CTE) of the ceramic, allowing it to be modulated on the specificities of the various types of dental zirconium in trade.

Furthermore, the ceramic crystals considerably increase the resistance of the ceramic as they create a zone of opposition to the propagation of the Griffith cracks, present in any glassy material.

Metal oxides are added to this composition of the Natural Micro-Layer ceramic to optimize the optical characteristics: the added oxides modify the optical aspects of the ceramic such as opacity, translucency, i.e. the ability to diffuse light inside the element, opalescence, fluorescence and transparency.

CLASSIFICATION	GLASS CERAMIC
CHEMICAL COMPOSITION	$SiO_2, Al_2O_3, K_2O, NaO_2, Li_2O, CaO, SrO, B_2O_3$
MAIN CONSTITUENTS GEL IN PASTE	1,3-BUTANDIOL, WATER
CLASSIFICATION ISO 6872:2019	TYP: 1 CLASS: 1b
COEFFICIENT of THERMAL EXPANSION (25-450°C) [$10^{-6} \cdot K^{-1} \pm 0.5$]	2x: 9.5 4x: 9.5
GLASS TRANSITION TEMPERATURE TG [$^{\circ}C \pm 20$]	2x: 480 4x: 480

4. LIGHT AND COLOR

NATURAL MICROLAYER

The micro-layered dental ceramic has the far from simple purpose of replicating the natural color of teeth, in extremely limited spaces and with a completely different material.

To obtain a result in line with expectations, faced with such an arduous task, it is necessary to proceed methodically and make an analysis of the elements, areas, chromaticity and value.

Natural dentin has different degrees of color and opacity, natural enamel can be translucent, transparent but also opaque.

The resulting chromaticity of an element is obtained through the reflection of light: in natural teeth the reflection of light is influenced not only by the surface but also by elements present in depth: this means that the colors of natural teeth are influenced by environmental conditions.

In different light conditions, such as natural light, neon, etc., the color effect can vary considerably.

Let's analyze and define some of the optical aspects that affect the final result.

TRANSPARENCY

The more transparent an element is, the more it is crossed by light; the more an element is transparent, the more the gray effect of the element will increase. On the contrary, the element is opaque; there will be a greater reflection of the light and therefore a greater chromatic effect.

MATT <--> TRANSPARENT

TRANSLUCENT

The more translucent an element is, the greater the diffusion of light inside it will be, increasing the three-dimensionality of the element; a translucent element is partially crossed by the light and creates a less transparent milky effect. A non-translucent element will appear flat.

THREE-DIMENSIONAL <--> FLAT

IRIDESCENCE

It is a typical property of the crystalline phase of some minerals: depending on the incident angle of light, the perceived

color is different. In dental ceramics it is a little used feature as it cannot be controlled.

OPALESCEENCE

It is a subset of iridescence, it is the behavior of an element similar to opal, limited to the color range between the shades of reddish and blue. This feature is widely used in ceramic masses especially in incisal masses to create liveliness.

FLUORESCENCE

It is the property of different materials to re-emit the received light radiation. Highly fluorescent components are added to aesthetic ceramics such as Natural Micro-Layer, which re-emit white-blue and yellow-orange colors. This property, very visible in special lighting conditions (e.g. Wood's light) also has the characteristic of creating a vital effect in conditions of diffused light and / or low light, making the dental restoration very similar, in terms of visual behavior, to the natural teething.

5. RISULTATO DELLA COTTURA DELLA CERAMICA

NATURAL MICROLAYER

The correct use of the ceramic masses provides for the correct management of firings.

The correct firing of the ceramic masses depends not only on the final temperature but also on other parameters, such as: - drying time and temperature; - heating thermal gradient; - holding time; - vacuum (percentage and duration) ; - position on the oven plate.

From a series of tests carried out it emerged that with different cooking temperatures it is possible to obtain the same results by varying the holding time and the heating thermal gradient; obviously the temperatures must be adapted to the oven you are using.

Comparable results are obtained with both high temperatures and short rise times, as well as lower temperatures and longer rise times.

From an in-depth analysis of the types of zirconia present on the market today, it was possible to identify some aspects of aesthetic criticality of this material: some types of zirconia during the firing cycle at high temperatures undergo a lightening process, which makes it more difficult the achievement of the aesthetic result with the microstratification technique, that is, more

firings, more thickness and more colors are needed to avoid the whitening of the prosthesis.

We have noticed that this behavior occurs with greater incidence when the firing temperature of the ceramic exceeds the threshold of 850-860 ° C.

Therefore, in the formulation of Natural MicroLayer masses for micro-layering we have tried to overcome this factor, creating masses that can work in a wide range of temperatures, compensating for a lower final temperature with an increase in the holding time.

In the description of the various masses in paragraph 11 it is possible to know both the minimum and the maximum processing temperatures, then evaluate based on the zirconia used which Natural MicroLayer mass is better to use.

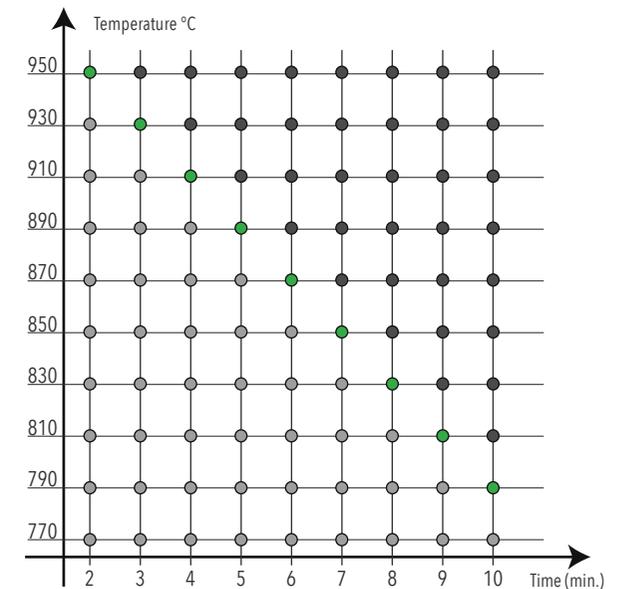
For a correct firing of the Natural MicroLayer masses we recommend creating a sample of the zirconium usually used and studying its behavior, at the various final temperatures: the goal is to use the highest temperature without the zirconium changing color, then set the maintenance to obtain a shiny and shiny surface, extending it the lower the final temperature, as can be seen in table 5A.

Since the yield of the final appearance is a

purely subjective component, it is always possible to increase or reduce the glossy effect by raising or lowering the final temperature by 5 ° C at a time.

It is possible to find a table for the ideal ratio between the FINAL TEMPERATURE - HOLD TIME more detailed in paragraph "17. Tables" of these instructions for use.

tab. 5A



6. WARNINGS AND INDICATIONS

The Natural MicroLayer ceramic system is composed of a range of powders and pastes for the micro-layering of ceramics.

WARNINGS AND CONTRAINDICATIONS:

Combination with materials other than the Natural Ceramic products mentioned and / or materials from other manufacturers.

Realization of restorations not mentioned.

Fabrication of restorations with wall thicknesses and connector cross sections smaller than those mentioned.

Dental ceramic and all-ceramic restorations made of glass ceramic are not recommended for patients with bruxism or parafunction or patients with substantially reduced residual dentition.

TECHNICAL WARNINGS:

Ceramics for dental use; processing must be carried out exclusively by qualified personnel.

During the processing of dental restorations (finishing, cleaning), dust and fragments can be released.

Protect eyes and respiratory tract by avoiding breathing dust.

During processing, the use of a vacuum cleaner, protective goggles and mask is recommended.

Given the diversity of ovens available on the market, the cooking conditions could be different. It is recommended that these variances in temperatures be taken into account.

All temperatures indicated are approximate values only, perform a cooking test before starting to work.

Avoid contact of the material with skin, eyes and mucous membranes.

The cleaning of the spatulas and brushes used in processing must be scrupulous. Any external impurity can have negative effects on cooking. Danger of contamination.

Pay attention during the high temperature firing process of the artifacts. Danger of burns. Use pliers and gloves.

STORAGE WARNINGS:

Storage in a dry place is recommended.

The ceramic material is synthetic, free of organic components and, in common processing and storage conditions, it does not undergo variations from temperature, sun, environmental humidity, etc; the

possible drying of the paste product may take place over time, but does not affect the quality of the product: it will be sufficient to use the suitable liquid to restore the original consistency.

If properly stored, the product does not expire.

Before using the product, carefully read the instructions for use.

INSTRUCTIONS FOR USE

Natural MicroLayer is a glass ceramic for dental use.

Natural MicroLayer is indicated for the complete and partial aesthetic coating of anatomical elements made of zirconia.

Natural MicroLayer, without prejudice to any limitations deriving from the minimum processing temperature, the complete and partial aesthetic coating of elements made of lithium-silicate-based ceramic is recommended.



Natural MicroLayer is not suitable for processing on metal structures and / or layered ceramic on alloys.

COMPATIBILITY:

Natural MicroLayer is compatible with Natural ZiR layering ceramic and Natural ZiR pressed pads.

Natural MicroLayer is compatible, subject to the limitations deriving from the working temperature of the masses, with Natural DSL lithium silicate based tablets for pressing.

For more information on the limitations deriving from processing temperatures, refer to the description of the individual MicroLayer materials in paragraph 11.

Natural MicroLayer is compatible with Natural STAINS stains, with Natural LIQUIDS and with Natural CRYSTAL micro-layering masses.

GENERAL WARNINGS

PREPARATION:

The preparations of the dental abutments are numerous and can be more or less indicated according to the type of restoration that will be made (fig. 6A).

Generally the preparation can be carried out

on the shoulder or chamfer and finishing.

The monolithic zirconia, which we recall tends to behave more similarly to an all-ceramic rather than an alloy, does not withstand tangential forces especially on very thin thicknesses, it is always recommended to prepare a rounded shoulder and / or a 90 ° shoulder.

In the shoulder preparation, a depth of the circular groove of about 1mm is recommended and the angle of the preparation must be at least 6 ° (Fig. 6B).

All axial and occlusal edges must be rounded.

It is recommended to create homogeneous and smooth surfaces avoiding undercuts.

fig. 6B

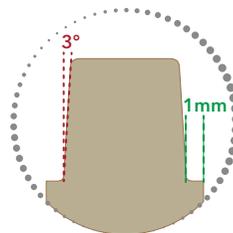


fig. 6A

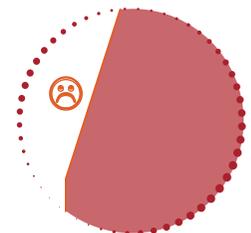
90° SHOULDER preparation, suitable for any type of restoration



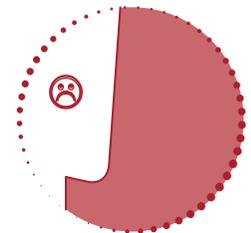
ROUND SHOULDER preparation, suitable for any type of restoration



FINISH preparation, contraindicated for full ceramic restorations both crowns and veneers



WRONG SHOULDER preparation, contraindicated for all types of restorations



NATURAL CERAMIC SYSTEM



DSL

pressable lithium silicate ceramic ingots for the fabrication of full restorations



HT

high temperature ceramic for traditional alloys, for layering and pressed



LF

low temperature ceramic for universal alloys, for layering and pressed



ZiR

special ceramic for zirconium oxide and lithium silicate, for layering and pressing



The ONE

the original highly fluorescent mono-mass ceramic for layering on metal and zirconia



Stains

universal stains in powder and paste, highly fluorescent, for deep and surface use



Glaze FX

universal glazing system in powder, paste, fluorescent paste and fluorescent spray



MicroLayering

system of fluorescent materials for micro layering on monolithic zirconia and lithium silicate



CRYSTAL

set of materials for micro-layering on any material: zirconia, lithium silicate, metal-ceramic

7. PREPARATION OF THE ZIRCONIUM FRAMEWORK

After modeling the structure with a CAD software, it will be milled by a CAM machine in the laboratory or in the milling centers.

For details on the correct modeling and milling process, refer to the instructions provided by the zirconium manufacturer.

Follow the instructions of the manufacturer of the structure and of the manufacturer of the zirconium also for the eventual bench finishing phase; if a finishing is carried out, it is recommended to work with a micromotor at low revolutions, keeping the texture wet in order not to create thermal shocks and to use highly abrasive diamond burs that have no chemical affinity with zirconium, such as the RED SHARK black ring burs.

ATTENTION: zirconium bridge structures require larger connections than metal-ceramic; refining of bridge connections is not recommended.

After any finishing phase, sandblast the product very carefully with glass beads to remove any debris, we recommend T-GLASS 50 at 50 μ , with a pressure of about 2 atmospheres (MAX).

Carefully clean the structure with a brush under running water; immerse in a bath of distilled water in an ultrasonic tank and then vaporize.

CAUTION: Zirconia is a ceramic material, therefore thermal shocks can cause fractures.

ATTENTION: after cleaning the structures must no longer be touched with hands, instead use clean tweezers (fig. 7.A)

For better handling of the elements in the processing stages, a small amount of EASY FIX refractory paste can be inserted inside the caps. In this way, by inserting the SIMPLY FIRE cooking support, the refractory dough, during the cooking cycle, will solidify becoming one with the cooking support, improving the handling of the elements (fig. 7.B).

To remove EASY FIX, simply sandblast the inside with glass beads and gently remove the support; then proceed with cleaning first with distilled water in an ultrasonic tank, then with steam.

fig. 7.B

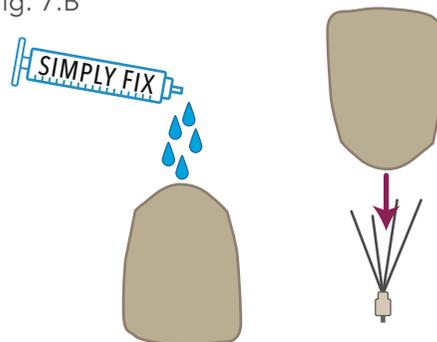


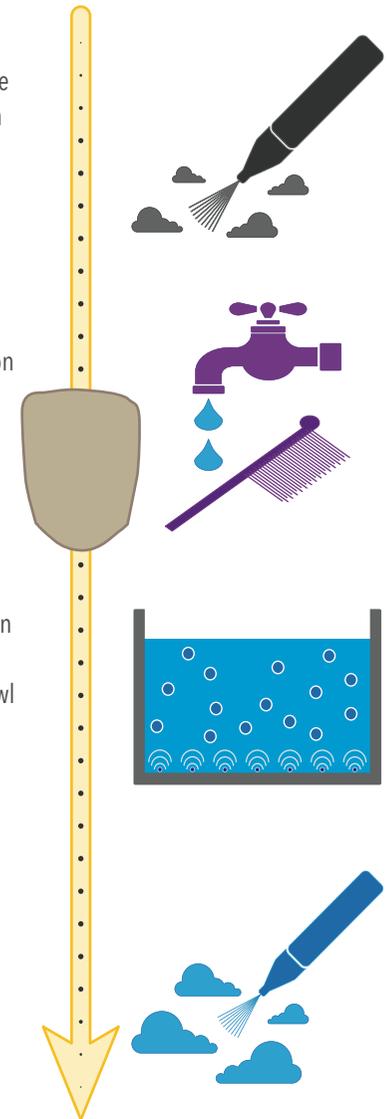
fig. 7.A

Sandblast the entire surface with 50 μ m glass beads at 2 BAR max

Rinse the restoration with running water and a brush

Place the restoration with distilled water in an ultrasonic bowl

Vaporize the element thoroughly



8. THE MICRO-LAYERING

Natural MicroLayer materials for micro-layering have been developed over the years alongside the evolution and development of dental zirconia.

Over the years, the zirconia manufacturers have gradually changed the formulation of zirconia: starting from a white, 100% opaque zirconia, today the market is mostly composed of translucent zirconia, colored with opacity reduced even by more than 50% of the original.

This development of the zirconia material has, over the years, improved the aesthetic result with the creation of translucent, intermediate and low opacity zirconia, which made it possible to create monolithic elements with a color similar to that of natural dentition.

However, the standardization of industrial production with standard shades and shades does not match the personalization of dental restorations, which is the basis of aesthetic dentistry.

Furthermore, zirconia, due to the intrinsic natural properties of the material, has a totally insufficient visual and optical behavior when it is in conditions of diffused light, low luminosity and ultraviolet; this optical aspect, which is managed by the fluorescence (see par. 4), leads to a scarce naturalness of the prosthesis.

The lack of fluorescence combined with a very basic standard coloring make monolithic zirconia insufficient from an aesthetic point of view.

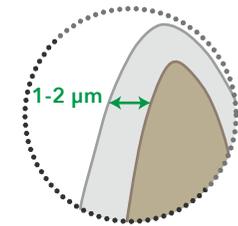
To overcome these problems, the Natural Ceramic System has developed the Natural MicroLayer range of masses for micro-layering: these ceramic masses allow, in minimum thicknesses that can vary between 0.1 and 0.2 mm, to build on monolithic zirconia a ceramic veil which, on the one hand improves its aesthetic performance and on the other creates a glass matrix on which to work with Natural Stains and customize the dental restoration to the specific needs (fig. 8A).

All MicroLayer masses are highly fluorescent, just to make up for a lack of zirconium, they have a high translucency, to create a more natural effect and a high polishing power, so that they can be worked in a few firings.

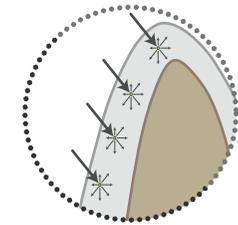
The Natural MicroLayer materials for micro-layering, spread over the entire monolithic restoration, increase the fluorescence and refraction of light, improving the aesthetic result and creating a ceramic matrix for better adhesion of the stains.

Fig. 8.A

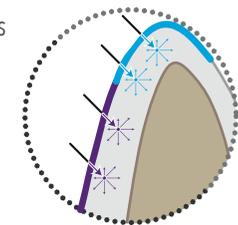
We obtain a good aesthetic result already with a very reduced thickness of 10/20 μm



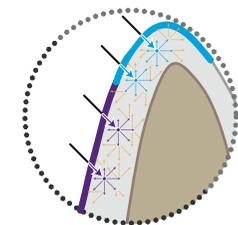
The high translucency of the MicroLayer masses increases the diffusion of light within the small ceramic layer



The application of Natural Stains on the surface increases the propagation effects of colored light within the ceramic, creating a very vital effect



The interaction between Stains, MicroLayer mass and colored zirconia structure makes the element three-dimensional and alive, like a traditional layered ceramic



9. BEFORE THE GLAZE FIRING

With Natural MicroLayer, even before the final Glaze firing, it is possible to intervene and change the shade of the restoration.

With Natural Stains universal fluorescent super-colors it is possible to intervene in many different ways.

Moreover, thanks to the specific color fixing firing, present in the Natural MicroLayer firing table, it is possible to carry out innumerable firing cycles until the desired result is obtained.

The low temperature color fixing only partially fires the super-colors and, by wetting the surface with a few drops of Natural Liquid Stains & Glazie, makes the final effect appear, thus allowing to evaluate the aesthetic result of the restoration.

It is possible to change both the color and the chromatic saturation using the super-fluorescent colors Natural Stains CROMA and CROMA LIGHT, depending on the desired shade (fig. 9.A).

CROMA Natural Stains can be applied in the cervical third, increasing the chroma saturation of the collar as in natural

elements; applied in the middle third, they increase the dentin saturation, making the dentin effect more chromatic and increasing the color on the A-D scale.

The Natural Stains COLOR allow you to create special effects in all areas of the restoration: fake caries, fake roots, crack lines, haloes, smoke effect etc; all bespoke colors can be made very easily thanks to the multiple shades of the Natural COLOR super-colors.

With Natural COLOR colors it is also possible to increase the contrast effect of the incisal areas, by varying the value of the area or by creating more delicate or marked areas of color to match the natural dentition (fig. 9.B).

All Natural Stains colors must be mixed exclusively with the dedicated Natural Liquid Stains & Glaze.

CAUTION:

If one or more firings are carried out with Natural Stains, it is necessary to finalize the restoration with one of the Glaze materials Natural Glaze FX FLUO; self-gloss firing is not recommended.

fig. 9.A

It is possible to intensify or even substantially change the chromaticity of the restoration with CROMA STAINS

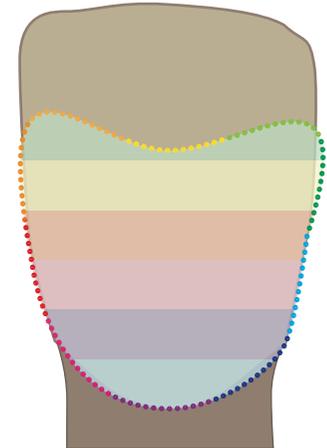
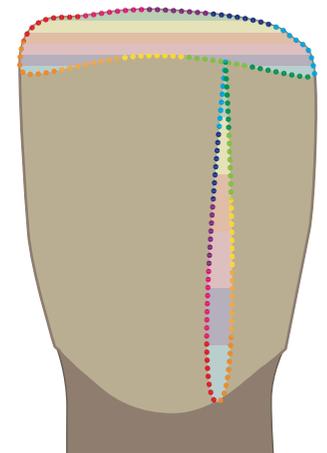


fig. 9.B

COLOR STAINS can both emphasize layered effects with Natural ZiR ceramic, and create ad hoc effects such as crack lines or fake caries



10. THE GLAZE FIRING

The Glaze firing is the last firing that is performed on a micro-layered monolithic zirconia restoration.

Natural Ceramic System has a very wide range of glazes available: powder, paste, fluorescent paste, fluorescent gel and spray: for monolithic zirconia we recommend the use of highly fluorescent glazes such as Glaze FX FLUO paste or AIR GLAZE FX in spray.

The glaze firing has two basic purposes, which are very important for a correct realization of the ceramic coating:

1. Surface polishing;
2. Surface sealing.

POLISHING: The best known and most easily recognizable feature of the Glaze firing is the surface polishing.

The very thin layer of Natural Glaze FX material is sufficient to create a very bright and shiny glass veil; this aspect has a strong aesthetic impact, the restoration looks much more alive and lively after the Glaze firing.

Since the more or less glossy effect is a

purely aesthetic aspect and therefore very subjective, it is possible to increase or decrease the glossy effect by changing the final temperature. It is recommended to make changes of $\pm 5^\circ \text{C}$ at a time.

SEALING: in addition to an aesthetic factor, the glaze also responds to a physical need, the surface sealing; the ultra-fine grain size of the Natural Glaze FX materials creates a very compact surface, penetrating all the irregularities of the ceramic, sealing the restoration.

Surface sealing is very important because it decreases the engraftment and accumulation of dental plaque, which would find a better habitat on irregular and rough surfaces.

For a correct application of Glaze FX paste it is necessary to use a short bristle brush; with a small amount of glaze, create a creamy paste that is not too liquid, and "massage" with the brush in a circular motion over the entire surface of the element (fig. 10.A).

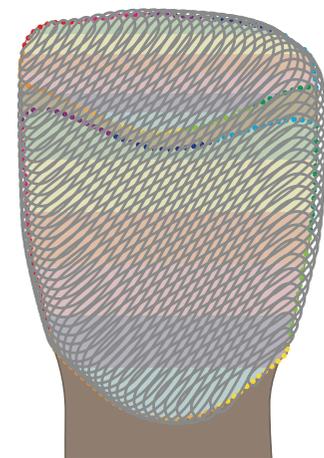
If the work protocol applied in the laboratory provides for it, it is also

possible to use the Natural AIR GLAZE FX in spray with great success.

The benefit of using a glaze spray comes from the possibility of unifying the glaze firing and the staining firing with Natural Stains, reducing processing times.

ATTENTION: It is recommended not to create thickness with glaze pastes and spray.

fig. 10.A



11. LE MASSES FOR MICRO-LAYERING

NATURAL MICROLAYER

11.1 NATURAL MICROLAYER MILA

11.2 NATURAL MICROLAYER OVERLAY

11.3 NATURAL MICROLAYER FRAME

11.4 NATURAL MICROLAYER MAC

11.1 NATURAL MICROLAYER MILA

Natural MILA, developed and produced since 2015, is the first mass specifically designed and developed for micro-layering on monolithic zirconia.

Natural Mila is a powdered glass-ceramic mass, made exclusively for microstratification on monolithic high opacity zirconia.

Mila can be mixed with all Natural Liquid liquids; it is advisable to use the Natural Special Modeling liquid and / or the Natural Stain & Glaze liquid to have greater plasticity of the mixture: the use of distilled water and / or normal modeling liquid is not recommended, as a low plasticity of the mixture can make it difficult to spread the mass uniformly over the entire monolithic element.

It is recommended to spread a light layer of Mila over the entire surface of the restoration, gently vibrating and drying any excess liquid.

WARNING: do not vibrate too long or too vigorously as this could cause a high concentration of material on the edges and in the occlusal cavities.

Mila has a neutral color, an intermediate value and a very high fluorescence; the extremely fluorescent composition helps to obtain a superior aesthetic result on monolithic zirconia.

ATTENTION:

given the high processing temperature, Natural Mila is NOT suitable for the micro-layering technique on lithium silicate.

The final firing temperature of the Mila mass must always be above 900 ° C, therefore it is recommended to carry out a test firing before carrying out a real job, to verify that the zirconia structure does not undergo discoloration due to the high temperature.

For more experienced technicians, it is possible to mix the powder of the Mila mass with the Natural Stains stains and thus create customized masses for microstratification.

Once fired with these Mila + Stain mixes, it is necessary to proceed with the glaze firing, using Glaze FX Fluo paste or AIR Glaze FX spray.



MicroLayer MILA 4gr.

31 62 09 081

11.2 NATURAL MICROLAYER OVERLAY

Natural Overlay was one of the first variable temperature materials for microstratification on monolithic zirconia.

Natural Overlay is a powdered glass-ceramic mass, made for micro-layering on all types of monolithic, low and high opacity zirconia.

Overlay can be mixed with all Natural Liquid liquids; it is advisable to use the Natural Special Modeling liquid and / or the Natural Stain & Glaze liquid to have greater plasticity of the mixture: the use of distilled water and / or normal modeling liquid is not recommended, as a low plasticity of the mixture can make it difficult to spread the mass uniformly over the entire monolithic element.

It is recommended to spread a light layer of Overlay over the entire surface of the restoration, gently vibrating and drying any excess liquid.

WARNING: do not vibrate too long or too vigorously as this could cause a high concentration of material on the edges and in the occlusal cavities.

Overlay has a neutral color, a high value

and a very high fluorescence; the extremely fluorescent composition helps to obtain a superior aesthetic result on monolithic zirconia.

The final firing temperature of the Overlay material can be varied from 930 ° C up to 850 ° C, therefore it can be used with any type of zirconia: for the correct temperature calibration, carry out tests with zirconium until the highest temperature is identified. which does not change its color.

Once the final temperature has been established, extend the holding time until a shiny and shiny surface is obtained.

For more experienced technicians, it is possible to mix the powder of the Overlay material with small quantities of Natural Stains and thus create customized materials for microstratification.

Once fired with these Overlay + Stain mixes, it is necessary to proceed with the glaze firing, using Glaze FX Fluo paste or AIR Glaze FX spray.



MicroLayer OVERLAY 4gr. 31 62 09 086

11.3 NATURAL MICROLAYER FRAME

Natural Frame was the first universal variable temperature materials for microstratification on monolithic zirconia and lithium silicate.

Natural Frame is a powdered glass-ceramic mass, made for the micro-layering technique on all types of monolithic zirconia, with low and high opacity, and on Natural DSL pressed lithium silicate.

Frame can be mixed with all Natural Liquid liquids; it is advisable to use the Natural Special Modeling liquid and / or the Natural Stain & Glaze liquid to have greater plasticity of the mixture: the use of distilled water and / or normal modeling liquid is not recommended, as a low plasticity of the mixture can make it difficult to spread the mass uniformly over the entire monolithic element.

It is recommended to spread a light layer of Frame over the entire surface of the restoration, gently vibrating and drying any excess liquid.

WARNING: do not vibrate too long or too vigorously as this could cause a high concentration of material on the edges and in the occlusal cavities.

Frame has an achromatic base color, a very

high value and a high fluorescence; the extremely fluorescent composition helps to obtain a superior aesthetic result on monolithic zirconia.

The final firing temperature of the Frame can be varied, for zirconia, from 930°C up to 810°C; for lithium silicate it is possible to go down to even 780°C.

On zirconia, once the maximum temperature that does not alter the color of the structure has been defined, extend the maintenance to obtain a brilliant and luminous surface.

On lithium silicate it is recommended not to exceed the temperature of 800 ° C, therefore it is recommended to work at lower temperatures by varying the holding time.

For more experienced technicians, it is possible to mix the powder of the Frame mass with small quantities of Natural Stains and thus create customized masses for microstratification.

Once fired with these Frame + Stain mixes, it is necessary to proceed with the glaze firing, using Glaze FX Fluo paste or AIR Glaze FX spray.



MicroLayer FRAME 4gr. 31 62 09 091

11.4 NATURAL MICROLAYER MAC

Natural MAC was the first universal variable temperature paste for microstratification on monolithic zirconia and lithium silicate.

Natural MAC is a glass-ceramic mass in paste, made for the micro-layering technique on all types of monolithic zirconia, with low and high opacity, and on Natural DSL pressed lithium silicate.

MAC is a ceramic material in paste, always ready for use, if it dries out over time, it is possible to restore the original creaminess by adding a few drops of Natural Stain & Glaze liquid.

ATTENTION: like all paste materials, MAC is also subject to sedimentation (precipitation of the powdered part in the liquid) over time. It is recommended not to drain and / or dry the liquid in the jar, but to mix it with a non-metallic spatula inside the jar until the original creaminess is restored.

It is recommended to spread a light layer of MAC over the entire surface of the restoration, gently vibrating and drying any excess liquid.

WARNING:

do not vibrate too long or too vigorously as this could cause a high concentration of material on the edges and in the occlusal cavities.

MAC has an achromatic base color, a high value and good fluorescence; the fluorescent composition helps to obtain a superior aesthetic result on monolithic zirconia and lithium silicate.

The final firing temperature of the MAC can be varied, for zirconia, from 910 ° C up to 810 ° C; for lithium silicate it is possible to go down to even 770 ° C.

On zirconia, once the maximum temperature has been found, which does not alter its color, extend the maintenance to obtain a brilliant and luminous surface.

On lithium silicate it is recommended not to exceed the temperature of 800°C, therefore it is recommended to work at lower temperatures by varying the holding time.

For more experienced technicians, it is possible to mix the powder of the MAC mass with small quantities of Natural Stains and thus create customized masses for micro-layering.

Once fired with these MAC + Stain mixes, it is necessary to proceed with the glaze firing, using Glaze FX Fluo paste or AIR Glaze FX spray.



MicroLayer MAC 4gr.

31 62 09 096

11.5 NATURAL MICROLAYER CRYSTAL

Natural Crystal is the natural evolution of Natural MicroLayer micro-layering masses in a complex system, with special ceramic masses both pre-colored and achromatic and customizable for the micro-layering technique.

With Natural Crystal it is possible to intervene with one or more firings on all the ceramics of the Natural Ceramic System line, both on zirconia and on metal and on lithium silicate.

Natural Crystal allows the total customization of the structures thanks to the two lines of gel masses:

- LIVE! eight special gel masses for aesthetic micro-layering in the white areas of the restoration;
- GUM ten special gel masses for the aesthetic micro-layering of the gingival areas of the restoration.

For a more in-depth analysis of the Crystal line, of the color and composition, of the firing cycles for the

correct treatment of the special gel masses, it is recommended to carefully read the instructions for use of the Natural Crystal ceramic, available on the website www.naturalceramic.it or by scanning the QR code shown here.



CRYSTAL

SPECIAL CERAMIC PASTE FOR ZIRCONIA, LITHIUM SILICATE AND ALLOY CERAMIC

12. NATURAL MICROLAYER LIST OF MATERIALS

Below are all the Natural MicroLayer micro-layering masses with the reference colors for easy and clear identification of the same, the reference color scale for each ceramic mass in the available packaging.

For the details of the colors, the layering technique and the suggested and recommended uses of each mass, refer to the Natural MicroLayer tables in paragraph 17 and to the indications in paragraph 11 of this manual.

MicroLayer MILA
POWDER 4 gr.



Crystal LIVE! 1 - 3 COLORS
VARIOUS COLORS
PASTE 4 gr.



MicroLayer OVERLAY
POWDER 4 gr.



Crystal LIVE! INCISAL
VARIOUS COLORS
PASTE 4 gr.



MicroLayer FRAME
POWDER 4 gr.



Crystal GUM PINK COLORS
VARIOUS COLORS
PASTE 4 gr.



MicroLayer MAC
PASTE 4 gr.



Crystal GUM RED COLORS
VARIOUS COLORS
PASTE 4 gr.

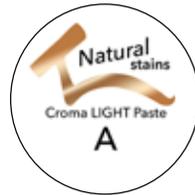


13. NATURAL STAINS LIST OF UNIVERSAL COLORS

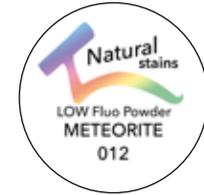
All the universal stains Natural Stains and Natural GLAZE FX are listed below, with the reference colors for easy and clear identification.

For the details of the colors and the suggested and recommended uses of each mass, refer to the Natural STAINS stains table in paragraph 17, or refer to the Natural STAINS & GLAZE Ceramic Catalog.

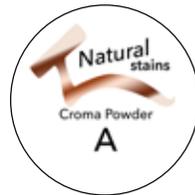
Stains CROMA LIGHT
PASTE 4 gr.



Stains LOW FLUO
POWDER 4 gr.



Stains CROMA
POWDER 4 gr.



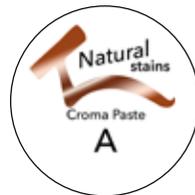
Stains HIGH FLUO
POWDER 4 gr.



Stains FLAT
POWDER 4 gr.



Stains CROMA
PASTE 4 gr.



Stains HIGH FLUO
PASTE 4 gr.



GLAZE FX TRADITIONAL
POWDER 10 gr.



GLAZE AIR FX SPRAY
ULTRA FLUO
SOLUTION 75 ml.



GLAZE FX TRADITIONAL
PASTE 10 gr.



GLAZE FX FLUO
PASTE 10 gr.



GLAZE FX CRYSTAL
ULTRA FLUO
PASTE 10 gr.



14. NATURAL LIQUID LIST OF UNIVERSAL LIQUIDS

Below are all the universal liquids of the Natural LIQUIDS family compatible with the various Natural Ceramic System masses, with the reference colors for easy and clear identification of the same.

For information on the suggested and recommended uses of each liquid, refer to the ceramic manual or refer to the specific Natural LIQUIDS Catalog.

Liquid INSULATING
20/50 ml.



Liquid MODELLING
100/250/1000 ml.



Liquid PASTE OPAQUE
20/50 ml.



Liquid SPECIAL
MODELLING
100/250/1000 ml.



Liquid MORFOLOGIC
SID & CUSPID
100/250 ml.



Liquid POWDER OPAQUE
20/50 ml.



Liquid PRISMATIC DENTIN
100/250 ml.



Liquid SHOULDER MASS
20/50 ml.



Liquid STAINS & GLAZE
20/50/100 ml.



15. WARNINGS

1. GENERAL:

All Natural Ceramic System products have been designed and manufactured as part of a single ceramic system and therefore, in the layering of the restorations, only original Natural Ceramic System materials must be used, carefully following the instructions for use and the recommendations provided by the manufacturer. Information on Natural Ceramic System products is transmitted to users through paper documentation (instructions for use, manuals, technical sheets, catalogs, etc.), audiovisuals, IT tools, training courses, practical demonstrations and telephone or verbal support from recognized Tressis specialists. Italy. The information provided is always at the highest level of technical and scientific updating available at the time the product is marketed.

2. RESPONSIBILITY OF THE USER:

The availability of the support information provided by Tressis Italia does not exempt the user from the obligation to personally verify the compliance of the products with the needs, indications and methods of use envisaged. All the processes, manipulations and applications of Natural Ceramic System products that take place outside the control of Tressis Italia itself, are under the control and complete responsibility of the user, who therefore also assumes responsibility for any consequential damage, in cases in which Tressis Italia products, components and tools are not used for procedures not expressly provided for or recommended.

3. MANUFACTURER'S RESPONSIBILITY:

The Natural Ceramic System is a medical device according

to the 93/42 EEC directive, aimed at the production of all-ceramic and / or layered prostheses on alloy and zirconia structures, for application in oral cavity of humans. Any use of the system other than that stated is configured as "improper use" relieving the manufacturer of any obligation and liability. Given that the choice and application of the product are acts carried out by qualified dental technicians on the recommendation of a dentist in total autonomy of judgment, no responsibility can be attributed to Tressis Italia for damages of any nature deriving from such acts.

4. DELIVERY:

All Natural Ceramic System products are intended exclusively for dentists and dental technicians, according to their respective skills, both in the case of direct sales and in the case of use of other commercial distribution channels.

5. WARRANTY:

Tressis Italia subjects all the products in the system to rigorous quality controls, in accordance with the regulations in force, aimed at providing a product free from obvious flaws and defects. As indicated in the conditions of sale, the verification of any defects and the methods of any replacement of the product must be agreed with Tressis Italia. No responsibility can be attributed to Tressis Italia for hidden defects or defects not ascertained by the user at the time of application of the product.

6. AVAILABILITY:

All Tressis Italia products may not be available in some

countries or commercial areas.

7. PRODUCT IDENTIFICATION - MARKING:

All Natural Ceramic System products are identifiable based on the item code and lot code, shown on the packaging.

8. PRODUCT DOCUMENTATION:

All the documentation for Natural Ceramic System products can be requested from Tressis Italia directly or through its marketing channels and is available on the website www.naturalceramic.it

9. SEMINARS AND TRAINING COURSES:

Tressis Italia regularly organizes training courses for its customers in order to allow users of its products to inform themselves and update themselves on the characteristics and use of Natural Ceramic System products.

10. KEY TO THE SYMBOLS SHOWN ON THE PACKAGE:

	Producer
	Production date YYYY MM
	Medical Device
	Production Lot
	Product code
	Unique identification of the device
	ATTENTION: consult the instructions for use

ATTENTION: Not necessarily all the symbols mentioned are present at the same time on the product packaging.

16. TRESSIS ITALIA BRANDS

TRESSIS ITALIA TRADEMARKS

Tressis Italia, a leading company in the dental sector, specializes in the production of dental ceramics and in the development of innovative products.

The strength of Tressis Italia is based above all on the quality of the product which derives from a deep knowledge of the materials.

Innovation has become a tradition in the philosophy of our work: technical and scientific progress, new materials, new technologies are challenges that see us at the forefront.

Our dynamism leads us to promptly identify the needs of the changing market, managing to offer operators in the sector products that anticipate change.

Tressis Italia has developed the Natural Ceramic System, one of the most complete and innovative in the sector, bringing new generation highly performing materials to the dental ceramics branch.

Our flagships: • the complete range with over 200 masses for traditional layering

and an exceptional series of special masses; • THE ONE monomass for metal and zirconia, launched on the market well over 10 years ago as an absolute novelty ; • The materials for micro layering on monolithic zirconia and lithium disilicate MiLa, Frame, Overlay, MAC and the CRYSTAL method with the innovative Micro Layering System technique.

In addition to the porcelain masses, Tressis Italia has developed Natural Stains, universal colors that can be used with all the highly fluorescent Natural ceramic lines. The working temperature range is very wide, and the Stains retain their color after numerous firings.

The Tressis Italia Natural Ceramic System is complemented by the Glaze FX range of glazes. Universal glazes, usable with all Natural ceramic lines, which meet all needs: normal powder, normal paste, highly fluorescent paste, highly sprayable fluorescent.

The original products developed by Tressis Italia in over 20 years of activity have seen countless attempts at imitation,

which have remained far from our level of excellence, 100% made in Italy.

Tressis Italia is now synonymous with innovation, research, functionality, simplicity, style and beauty.

Tressis Italia has brought to the dental sector a ceramic range of extraordinary technical, aesthetic and functional value, at the same time simple and fast as time requires.

Tressis Italia owns the following brands:



17. NATURAL MICROLAYER TABLES

COMPOSITION TABLES NATURAL MICROLAYER SYSTEM

COLOR CHART

FIRING CHART

TEMPERATURE & HOLD TIME CHART

NATURAL STAINS POWDER AND PASTE CHART

NATURAL STAINS PASTE CHART

MICRO-LAYERING MASSES -HIGH FLUORESCENCE-



	LITHIUM DISILICATE		FULL CROWN ZIRCONIA			APPEARANCE AFTER FIRING			
	PRESSED	MILLED	OPAQUE	TRASLUCENT	HIGH TRASLUCENT	OPACITY% APPROX	CROMA	VALUE	FLUORESCENCE
Frame 1	✓	✓	✗	✓	✓	55%	MID	HIGH	HIGH
Overlay 1	✓	✓	✗	✓	✓	30%	LOW	HIGH	HIGH
MAC 1	✓	✓	✓	✓	✓	10%	LOW	HIGH	HIGH
MiLa 1	✗	✗	✓	✗	✗	25%	ULTRA LOW	ULTRA HIGH	HIGH

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DENTAL CERAMIC

 ITALIAN STYLE

REF 01 TABML 010 -1

MICRO-LAYERING FIRING CHART

PROGRAM	DRY TIME *	CLOSE TMLE	START TEMP	SATURATION **	HEAT RATE	FINAL TEMP	VACUUM START	VACUUM END	HOLD TIME ***	NOTE
	min	min	°C	min	°C / min	°C	°C	°C	min	
LINER on ZIRCONIA	6 - 8	6	400	1	60	1020	450	1020	2	ONLY FOR ZIRCONIA. Extend DRY TIME & CLOSING TIME for big restorations and/or thick elements
MILA on ZIRCONIA	2	2	400	1	45	950-990	450	950-990	2 - 8	ONLY FOR MONOLITHIC (FULL CONTOUR) ZIRCONIA
OVERLAY on ZIRCONIA	2	2	400	1	45	850-930	450	850-930	2 - 8	ONLY FOR MONOLITHIC (FULL CONTOUR) ZIRCONIA
OVERLAY on LITHIUM DISILICATE	2	2	400	1	45	790	450	790	2	ONLY FOR LITHIUM DISILICATE
FRAME on ZIRCONIA	2	2	400	1	45	810-930	450	810-930	2 - 8	ONLY FOR MONOLITHIC (FULL CONTOUR) ZIRCONIA
FRAME on LITHIUM DISILICATE	2	2	400	1	45	790	450	790	2	ONLY FOR LITHIUM DISILICATE
MAC on ZIRCONIA	2	2	400	1	45	810-910	450	810-910	2 - 8	ONLY FOR MONOLITHIC (FULL CONTOUR) ZIRCONIA
MAC on LITHIUM DISILICATE	2	2	400	1	45	790	450	790	2	ONLY FOR LITHIUM DISILICATE
STAINS FIXING	2	2	400	1	45	750	-	-	1	Fasten stains color on surface, preventing mixing and staining. This firing process can be performed as many time you like or need.
GLAZE FX	2	2	400	1	45	770-850	-	-	1 - 6	Program suitable with both PASTE GLAZE FX (Classic and FLUORESCENT) for other kind of glazing material, check specific instruction for use.

* DRY TIME: all parameters are intended for single crowns and small bridges; for longer restorations and full contour zirconia extend DRY TIME and CLOSING TIME, if possible, up to 4 / 6 minutes.

** SATURATION: this program can be runned only by furnaces with this feature available.

*** FINAL TEMPERATURE & HOLD TIME: after firing restorations should appear very smooth and glossy, with a bright and silky surface, to achieve this result FINAL TEMPERATURE and HOLD TIME can be changed.

WARNING: for very wide restorations and thick zirconia frames HLD TIME can be extended up to 6 mins and above.

for ZIRCONIA blocks that suffer from bleaching at high temperatures, use the lower temperature mentioned and extend maintenance.

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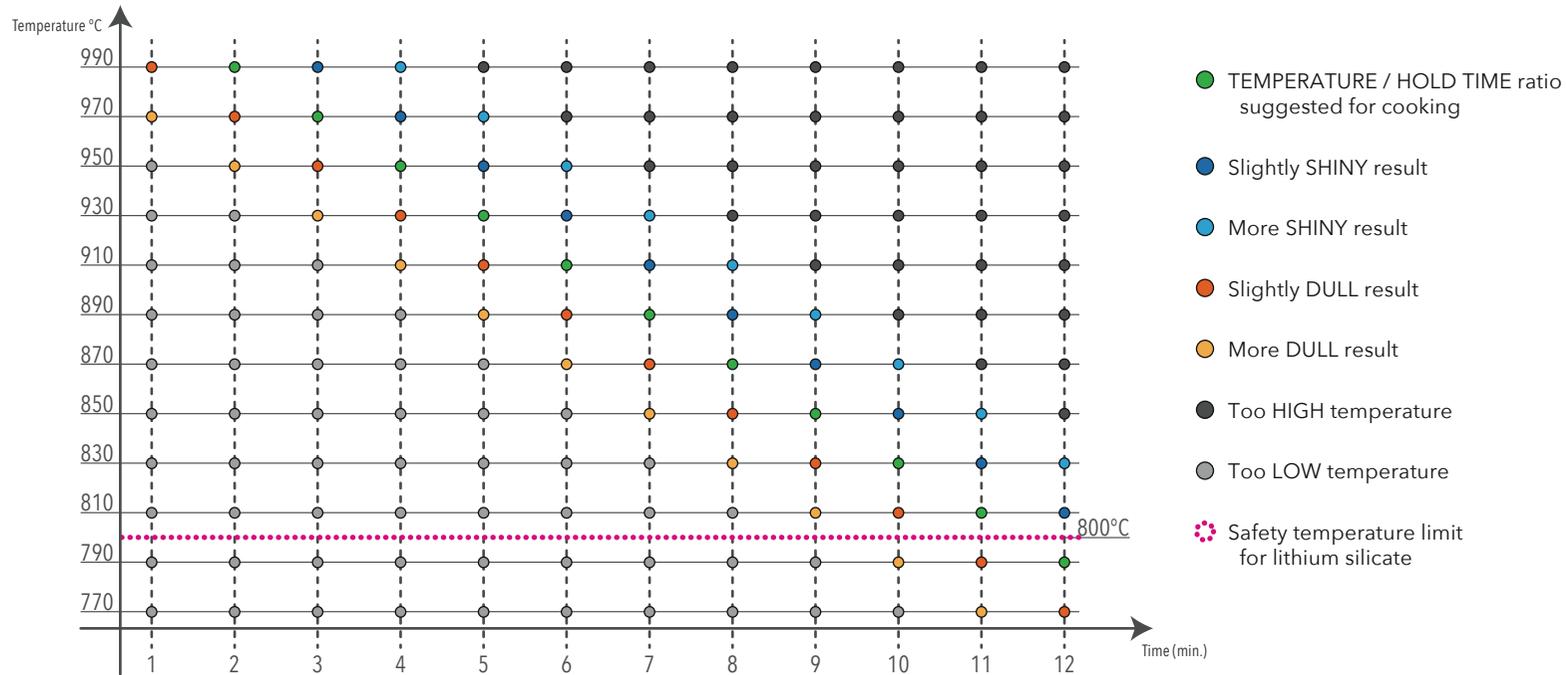
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The MAINTENANCE or HOLD TIME at the end of cooking directly depends on how much you want to make the Natural MicroLayer micro-layering mass shiny and glossy; given that it is a purely aesthetic aspect and therefore subject to personal sensitivities, of the dentist and of the patient, those reported are suggestions and can be varied according to personal tastes.

Before starting work it is advisable to carry out tests, it is recommended to vary the final temperature by $\pm 5^\circ\text{C}$ at a time as well as vary the holding time by 30 "at a time. Once you have found the desired degree of gloss, note the temperatures and proceed with the processing.

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Natural

CERAMIC
SYSTEM

2021

MicroLayer CRYSTAL GUM

2020

MicroLayer CRYSTAL LIVE!

2019

MicroLayer MAC A-D

2017

MicroLayer MAC

2016

MicroLayer OVERLAY & FRAME

2015

MicroLayer MILA

2007

UNIVERSAL STAIN
CHROMA & COLORS

NATURAL MICRO-LAYER MATERIALS HISTORICAL CHART

MICRO-LAYER 3D TIME LINE



Natural[®] stains

UNIVERSAL STAINS POWDER & PASTE

CE 0546

POWDER LOW FLUORESCENCE

METEORITE
012

LIGHT BLUE
018

POWDER FLAT

BROWN
508

WHITE
513

POWDER HIGH FLUORESCENCE

ORANGE
106

CHOCOLATE
109

WHITE
113

PINK
114

BLUE
119

BLACK
120

ORANGE
123

GRAY
126

PASTE HIGH FLUORESCENCE

YELLOW
601

SAFARI
607

BROWN
608

VIOLETT
611

METEORITE
612

WHITE
613

PINK
614

DEEP PURPLE
615

RED PASSION
616

LONDON
617

BLUE
619

BLACK
620

ATLANTIC BLUE
621

SAND
622

ORANGE
623

GRAY
626

LUNE
628

POWDER CROMA HIGH FLUORESCENCE

A

B

C

D

PASTE CROMA HIGH FLUORESCENCE

A

B

C

D

PASTE CROMA LIGHT HIGH FLUORESCENCE

A

B

C

D

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DENTAL CERAMIC

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COLOR PASTE HIGH FLUORESCENCE



CROMA PASTE HIGH FLUORESCENCE



CROMA LIGHT PASTE HIGH FLUORESCENCE



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DENTAL CERAMIC

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REF 01 TABUN 010 -2

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Natural[®]

DSL

HT

LF

ZiR

MicroLayer

Stains

NATURAL MICROLAYER INSTRUCTION FOR USE



DENTAL CERAMIC

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CERAMIC
SYSTEM
CE 0546

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