

TECHNICAL DATA SHEET

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NASIER LAPIDEO L01

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1. TREATMENT TYPE

Nasier Lapideo L01 is an eco-friendly detergent suitable for the removal of biological and protein patinas from stone, ceramic, vitreous and metallic surfaces during the restoration operations.

- **Biological patinas:** lichens, molds, cyanobacteria, algae, mosses
- **Protein patinas:** casein, protein glues, protein substances

2. PRODUCT PROPERTIES

- White-colored aqueous gel based on stabilized enzymes, ready to use.
- The product is not biocidal.
- It is an ecological and safe product to both the operator and the environment.
- Its composition allows it to act selectively without attacking or damaging the underlying surface. It helps to easily remove the biological patinas from the surface to be treated and it hydrolyzes the peptide bonds in the protein substances.
- Thanks to the technology employed, the product may be used without measuring the pH or the temperature of the surface to be treated and of the product itself.
- It may be used even if the object has metallic components.
- For Professional Use only.

3. PHYSICOCHEMICAL PROPERTIES

Appearance (physical state and color): White water-based gel

Odor: Odorless

pH: 8.5

Water solubility: The gel is water based.

Explosive properties: based on the composition and the chemical structure of the product, its explosive properties are excluded.

Oxidizing properties: based on the composition and the chemical structure of the product, its oxidizing properties are excluded.

4. PREPARATION

- Before the treatment the surfaces must not be prepared with substances other than water. If required, please contact first your contact person from Brenta.
- **The product is ready to use, it does not require dilution.**
- **The gel must be stirred well with a brush or a spatula until it becomes homogeneously white.**
- It is preferable to pour the required amount of gel in a separate container, so as to avoid contaminating the entire product with the product with any tools you have used.
- **The product coverage rate is approximately 4 sq. m/Kg.**



5. APPLICATION

- Nasier Lapideo L01 may be applied to **stone, mosaic and derivatives, decorated surfaces of architecture** (such as for example statues, facades, platers, mosaics, frescoes). In addition, it may be applied **on ceramic, vitreous and organic, metallic and alloy materials and objects**.
- It may be spread directly onto to the surface to be treated or, in case of delicate or broken up surfaces, by placing an interface in between the product and the specific area.
- To apply the gel use: brushes, rollers or spatulas. There is no need to pay attention to the metallic parts of the tool you use.
- The product may be applied **without any pH control** and with **ambient temperatures ranging from 5° to 38°C**. Outside the specified range, it might not preserve the same effectiveness.
- For the product **application timing**, merely as an example, follow the timing reported in *Table 1*.

	T<12°-15°C	12°-15°C <T<25°C	T>25°C
Well-conserved surface	90 min	45 min	45 min + film
Delicate/broken up surface	Starting from 15 min	Starting from 15 min	Starting from 15 min + film

Table 1_Application timing by surface type and ambient temperature

- It is enough to apply a layer a few millimeters thick, so as to maintain the gel moist for the time required for the application. Therefore, to enable the enzymes to act, **the gel must not dry up within the specified application time**.

If that should happen, you may intervene as follows:

1. Spray water so as to moisten the gel and
2. spread an additional amount of product on top of the dry gel

In the presence of high temperatures, it is, however, always necessary to apply a protective film directly onto the application. "Film" means any transparent film capable of covering and protecting the gel from the exsiccation caused by the high temperatures.

- Based on the conservation status of the surface, it is appropriate to follow the application instructions below:

a) Application on well-conserved surfaces

- Spread the gel with a brush or a spatula directly onto the surface to be treated.
- Based on the ambient temperatures, follow the time frames reported in *Table 1*.
- Upon conclusion of the application time, moisten the treated surface with plain water and **rub** with a soft bristle brush, so as to remove the patina damaged by the enzymatic action.
- **Rinse** the treated surface with plain water, using sponges as well if required.



- Perform these two actions (**rubbing-rinsing**) **3 times in total**. The formation of a light foam while rubbing the surface must no longer be visible.
- If you should perform a second treatment, it is not necessary to wait for the surface to dry between applications.

b) Application on delicate or broken up surfaces:

- Apply a piece of Japanese paper directly onto the surface to be treated.
 - Spread the gel on top of the interface, paying attention to not go beyond the edges.
 - Based on the ambient temperatures, follow the time frames reporter in *Table 1*. In such case, it is advisable to test with an application of 15 minutes and, if necessary, proceed progressively with other applications of 30'-45'-60' to 90 minutes with more frigid temperatures.
 - Upon conclusion of the application time, remove the interface containing the gel with tweezers, moisten the treated surface with plain water and **delicately rub** with a soft bristle brush (if deemed suitable for the removal, otherwise use a more delicate system), so as to remove the patina damaged by the enzymatic action.
 - **Rinse** the treated surface with plain water, using sponges as well if required.
 - Perform these two actions (**rubbing-rinsing**) **3 times in total**. The formation of a light foam while rubbing the surface must no longer be visible.
 - If you should perform a second treatment, it is not necessary to wait for the surface to dry between applications.
- In general, in case the surface is too porous, place an interface on which to spread the gel or moisten the area in order to reduce further water absorption.
 - In case of a particularly thick or recalcitrant patina, it is possible to apply the gel directly, for a longer time than the minimum time provided for or perform a second application in the same fashion (**However, please always contact your representative in Brenta to get confirmation or further advice**).
 - **It is suggested, based on the analytical result, that a protective layer be used following the cleaning phase so as to protect and prolong its results.**

6. SAFETY

- It is an ecological and safe product to both the operator and the environment.
- Its label does not contain hazard pictograms.
- There is no need to collect the wash water upon completion of the treatment.
- **Safety standards as per Regulation (EC) No. 1272/2008:**

The product is not classified as hazardous under Regulation (EC) No. 1272/2008.

Hazard class	Associated hazard category	hazard	Hazard Statements
-	-	-	-



- **Labeling under Regulation (EC) No. 1272/2008.**

Hazard pictogram(s):	No hazard pictogram.
Warning:	No warning.
Hazard Statement(s):	No hazard statement.
Precautionary statements:	No precautionary statement.
Additional information:	EUH208: Contains trypsin. May cause an allergic reaction. EUH210: Safety Data Sheet available on request.

- **For further information, please see Safety Data Sheet** .

7. STORAGE

- Store in a cool, dry place, away from heat.
- Once opened, if there is no contamination present (as reported in section 4. Preparation), you may continue storing it in a cool, dry place and using it within the expiration date specified on the label.

Delivery forms by Deffener & Johann GmbH:

2070 002 Nasier Lapideo L01, 200 g
2070 010 Nasier Lapideo L01, 1 kg
2070 040 Nasier Lapideo L01, 4 kg