

deffner & Johann

Supplies for RESTORATION | CONSERVATION | ART HANDLING – SINCE 1880

TECHNICAL DATA SHEET

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NASIER CARTACEO C01 TECHNICAL DATA SHEET

1. TREATMENT TYPE

- Nasier Cartaceo C01 is an ecological and safe detergent suitable for the removal of biological and protein patinas from library and archival materials, parchment and paper products, photographic and film materials during the restoration process.
 - **Biological patinas:** molds, bacteria
 - **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 surface must not undergo preparation, except for the mechanical removal of dust or other impurities, if required.
- **The product is ready to use, it does not require dilution.**
- **The gel must be stirred well using a brush or a spatula until the product becomes homogeneously white.**



- It is preferable to pour the required amount of gel into a separate container so as to avoid contaminating the whole product with any tools you have used.
- **The product coverage rate is approximately 4 sq. m/Kg.**

5. APPLICATION

- Nasier Cartaceo C01 may be applied to **library and archival materials, parchment and paper products, photographic and film materials.**
- An interface, such as Japanese paper, is placed on the surface to treat and the product is spread onto it.
- Use brushes to apply the gel. It is not necessary to pay attention to the metal parts of the tool being used.
- Alternatively, if the operation described above is not applicable, you may use a rigid gel support layer (for example Gellano), carefully incorporating the product towards the end of the preparation of the support layer, so as not to denature the protein due to excessively high temperatures.
- The product may be applied **without any pH control** and at **room temperatures ranging from 5° to 38°C**. Outside such temperature range, it might not preserve the same efficiency.
- For the product **application timing**, please follow the time frames indicatively reported in *Table 1*. It is highly recommended to perform preparatory tests in preparation for the intervention, with progressive application times according to the conservation condition of the object. In general, we recommend proceeding step by step, with application times starting from 5 to 10 minutes and progressively reaching 15'-30'-45' to 60' in the more complex cases. If the conservation condition allows it, it is also possible to apply the product directly, without using the interface. However, please contact your representative in Brent to get confirmation or further advice.

T<12°-15°C	12°-15°C <T<25°C	T>25°C
Starting from 10 min.	Starting from 5 min.	Starting from 5 min. + film

Table 1_Application timing by 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 by spreading additional amount of product on top of the dry layer.
 - In the presence of high temperatures, it is however always recommended to use a protective film on the application so as to prevent the product from drying up.
 - "Film" means any transparent film capable of covering and protecting the gel from the exsiccation caused by the high temperatures.
- Upon conclusion of the application time, lift the interface and gently rub the treated surface with a cotton ball soaked with deionized water, so as to remove the patina damaged by the enzymatic action.



- If the treatment should need to be repeated, it is not necessary to wait between applications.
- In case of a particularly thick or recalcitrant patina, it is possible to apply the gel for a longer time or perform a second application in the same fashion (**However, please always contact your representative in Brenta to get confirmation or further advice.**)

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 statements
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- **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 other 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:

2070407 Nasier Cartaceo C01, 75 g
2070420 Nasier Cartaceo C01, 200 g