NASIOL

**Technical Data Sheet**

# T1

## Product Information

Nasiol T1 is an economic formula that has been developed for fabric surfaces to gain hydrophobic and oleophobic properties against common liquids and stains whilst giving easy-to-clean effect. It can be applied to a variety of textile surfaces.

## Application Surfaces

- Textiles (Mostly synthetic types)
- Suede and nubuck surfaces

Do not apply the product on surfaces including:

- Artificial Leather
- Stone
- Glass & Ceramic
- Wood
- Metal
- Hard and Smooth Thermoset&Thermoplastic Surfaces

## Benefits & Key Features

- Water and oil repellency.
- UV protection.
- Chemical resistance.
- Stain resistance.
- Breathable coating.
- Easy to clean.

## Durability

| Up to 9 Months |
|---|

## Instructions

Surfaces should be dry and free of any dust, oil, grease and other contamination.

Application should be made in a shaded and well-ventilated area.

### Manual Application

*It is recommended to try on a small area before covering the entire surface.

- Spray the product onto the surface in the essential amount with a trigger bottle.

### Pressurized Spraying

* It is recommended to apply it to the final product after the trials are made and the optimum parameters are found.

- Any type of spraying systems capable of applying homogeneously can be preferred. A nozzle diameter of 1-2 mm is suitable.
- The distance between the surface and nozzle can be chosen between 10-20 cm depending on the other parameters.
- Spraying pressure can be chosen between 1-1.5 bar depending on the other parameters.
- The product should be sprayed onto the surface in the essential amount with a fine atomization

### Padding

* It is recommended to apply it to the final product after the trials are made and the optimum parameters are found.

- Adjust the squeezing pressure to reach the target pick up value.
- Nasiol T1 does not require high temperatures to cure. When adjusting the oven temperature and line speed, it is sufficient to pay attention to the dryness of the substrate at the oven exit.
- **The oven to be used must be capable of drying flammable finishing products.**

## Curing

### Room Temperature Curing

Dry to touch: 6 h at 23°C - 50% RH

Fully curing: 24 h at 23°C - 50% RH

### Accelerated Curing

It is possible to accelerate the curing process by applying heat by choosing the appropriate time and temperature according to the surface type.

**ARTEKYA TEKNOLOJİ LTD. ŞTİ.**
TUBITAK MAM Serbest Bölge Yeni Teknoloji
Binaları D/Z Gebze / Kocaeli / TURKEY
+90 262 642 81 54
info@artekya.com
www.artekya.com
www.nasiol.com

NASIOL

**Technical Data Sheet**

# T1

## Specifications

| | |
|---|---|
| Packaging | 1-5-30 L |
| Appearance | Colorless Liquid |
| Chemical Resistance | 11>pH>1 |
| Dry Film Thickness | 75-100 nm |
| Consumption per Unit Area | 80-100 mL/$m^2$ |
| Density @23°C | 0.812 g/$cm^3$ |
| pH Value | 1.9-2.2 |
| Breathability (EN 1062-1) | Category 1 |
| Application Temperature | 5°C-30°C (≤50% RH) |
| Temperature Durability | 110°C |
| Water Repellency (ISO-4920) | 100/100 |
| Water Contact Angle | 129° @10 µL |
| Water Contact Angle After “2000” Wet Scrub (ISO-11998:2006) | 122° @10 µL |
| Water Sliding Angle | 9° @60 µL |
| Oil Contact Angle | 81° @10 µL |
| REACH Compliance | Yes |

## Application Tips

Ensure that the temperature and relative humidity (RH) of the application space are as close as possible to the given values to achieve the highest product performance.

Avoid direct sunlight during the application and only work on cool surfaces.

Shake the product gently before use.

It is important to apply a significant amount to the substrate.

Always test the product on a smaller area out of sight before working on larger areas to observe further effects and compatibility with material(s).

If product contacts with incompatible materials, wipe it off immediately with a dry and clean microfiber cloth.

Ventilate the space/interior well for following hours of application.

**Pressurized Spraying**

If the surface seems excessively wet after the application, you can;

- Decrease the flow rate
- Increase the spraying distance
- Increase the spraying pressure
- Expand the pattern
- Increase the line speed

If you couldn't apply enough amount and couldn't obtain a good repellency, you can;

- Increase the flow rate
- Decrease the spraying distance
- Decrease the spraying pressure
- Narrow down the pattern
- Decrease the line speed

**Padding**

If the substrate is still wet at the oven exit, you can;

- Decrease the line speed
- Increase the squeezing pressure
- Increase the oven temperature

If you couldn't apply enough amount and couldn't obtain a good repellency, you can;

- Decrease the line speed
- Decrease the squeezing pressure

**Curing**

When the coated surface is dry to touch, it can be handled/packed. Fully curing process will continue.

Even if you apply a heat treatment to accelerate the curing process, keep the coated surface away from water/contamination for 24 hours and don’t perform harsh tests on it.

**ARTEKYA TEKNOLOJİ LTD. ŞTİ.**
TUBITAK MAM Serbest Bölge Yeni Teknoloji
Binaları D/Z Gebze / Kocaeli / TURKEY
+90 262 642 81 54
info@artekya.com
www.artekya.com
www.nasiol.com

NASIOL

**Technical Data Sheet**

# T1

## Storage

To achieve a high quality of coating, keep the containers tightly closed in a dry, well ventilated space away from heat and ignition sources, stored at -3°C to +30°C. The shelf life of product is 24 months from the date of production when stored in the unopened container under suggested storage conditions. After opening the container, it is recommended to use up the product within 1 month.

## Disclaimer

The technical information described in this document is based on tests and other practical experience that Nasiol® believes are reliable. Nasiol® cannot guarantee anything but ready to use quality of the product at the time of shipment, disclaims any liability for product performance and incidental or consequential damages, according to self-implementation within the user's knowledge, beyond the manufacturer's control. Please refer to the Safety Data Sheet (SDS) before use of product.

Users should consult Nasiol® for guidance on the suitability of specific applications. Nasiol® reserves the right to change the given data without further notice.

**ARTEKYA TEKNOLOJİ LTD. ŞTİ.**
TUBITAK MAM Serbest Bölge Yeni Teknoloji
Binaları D/Z Gebze / Kocaeli / TURKEY
+90 262 642 81 54

info@artekya.com
www.artekya.com
www.nasiol.com