NORDICLIGHTS

Technical Data Sheet

Nanobright Coating for Plastic Lens

Product Information

Nanobright Coating for Plastic Lenses provides advanced nano protection with a strong hydrophobic effect. Engineered for durability, this transparent coating reduces the build-up of dirt and moisture, making it easier to keep lens surfaces clean and clear – even in challenging environments.

Application Surfaces

- Metals & Alloys
- Painted Surfaces
- Thermosets & Thermoplastics
- Composite Materials

Do not apply the product on surfaces including:

- Elongatable Surfaces
- Porous/Absorbent Surfaces
- Freshly Painted Components (Up to 3 Months)
- Low Quality Paint Jobs
- Glass, Stone, Wood etc.

Benefits & Key Features

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

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.

- It is recommended to try on a small area before covering the entire surface.
- The product is sprayed onto the surface in an appropriate amount using the trigger bottle.
- The surface should be buffed immediately with a dry, lint-free microfiber cloth in circular motions.

Curing

Room Temperature Curing

Dry to touch: 4 h at 23°C - 50% RH

Full curing: 24 h at 23°C - 50% RH

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.

If the ambient temperature or relative humidity value is higher than the suggested intervals/values, the product may cure faster than expected.

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

If required, clean the application surface thoroughly by applying a clay bar and/or polish using appropriate tools and silica/wax free cutting compounds. Finally, prepare the surface by using Nanobright Cleaner to improve the bonding performance of the nano coating. Ensure that there isn't any residual contamination and dry the surface with a lint-free microfiber cloth.

Shake the product gently before use.

Do not work on areas larger than 1 m^2 per session. Coincidence of coating areas during the application does not constitute a problem.

Wear protective nitrile gloves when handling the product.

Remember to keep the lid closed during the application.

To make the most of the microfiber cloths, fold each one four times before application, and do not re-use the side of the cloth you used.

If the coating dries by itself on the surface before you buff or if you don't buff the surface sufficiently and because of that a hazy look occurs, immediately apply a little bit more product onto that spot and buff it again to solve the visual problem.

Curing

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

Specifications

Packaging	50 mL
Appearance	Colorless Liquid
Chemical Resistance	12>pH>1
Saltwater Resistance	Yes
Moisture Resistance	Yes

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Pencil Hardness *(ISO-15184:2012)*	7H
Dry Film Thickness	200-300 nm
Consumption per Unit Area (Manual Application)	5-8 mL/m^2
Density @23°C	0.8 g/cm^3
pH Value	4.7-5.0
Application Temperature	5°C-30°C (≤50% RH)
Temperature Durability	275°C
Water Contact Angle	97° @10 µL
Water Contact Angle After 2000 Wet Scrub *(ISO-11998:2006)*	92° @10 µL
Water Sliding Angle	16° @60 µL
Oil Contact Angle	76° @10 µL
Gloss Rate @60° *(ISO-2813:2014)*	93 (Acrylic)
REACH Compliance	Yes

Specifications for recommended cloth

Blend	80% Polyester & 20% Polyamide
Weight	320 gsm

Durability

Normal conditions (-20°C to +35°C / pH<12)
Up to 5 years

Removal

Once the product is cured, it is very difficult to remove it from the surface. In such a case, product removal can only be achieved by polishing with a special cutting compound. To avoid any harmful consequences generated due to the surface correction process, read the instructions carefully.

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 12 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 week.

Disclaimer

The technical information described in this document is based on tests and other practical experience that Nordic Lights believes are reliable. Nordic Lights 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 Nordic Lights for guidance on the suitability of specific applications. Nordic Lights reserves the right to change the given data without further notice.