



Technical Data Sheet

Omniphob M59

Product Information

Omniphob M59 is a state-of-the-art nano layer formulation that has been developed for hard, smooth surfaces and ensures protection against environmental conditions whilst giving a hydrophobic effect in a single layer of coating to applied surfaces.

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
- Damaged Surfaces (Scratched etc.)
- Glass, Stone, Wood etc.

Benefits & Key Features

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

Instructions

For small surface area applications please follow the instructions listed below.

For large surface area / industrial applications and accelerated curing methods, please contact your sales representative for assistance.

- Surfaces should be prepared accordingly.
- Surfaces should be dry and free of any dust, oil, grease and other contamination.
- Application should be made in a shaded area.

- Product is spread with an applicator pad or sprayed with an appropriate gun (HVLP is recommended).
- The surface should be buffed immediately with the microfiber cloth(es) in the given order, according to chosen technique.
- Curing time is 48h at 23°C - 50% RH.

Spray Gun Specifications

Gun Type	HVLP
Feed Type	Gravity
Nozzle Tip Size	0.8-1.3 mm
Pressure	1.5-2 Bar
Distance	15-20 cm

Specifications

Packaging	1-5-30 L
Appearance	Colorless Liquid
Chemical Resistance	12>pH>1
Salt Water Resistance	Yes
Moisture Resistance	Yes
Pencil Hardness (ISO-15184:2012)	9H
Dry Film Thickness	0.8-1.1 µm
Consumption per Unit Area	4-5 mL/m ²
Density @23°C	0.87 g/cm ³
pH Value	5.5-6
Dry to Touch Time	4h
Application Temperature	5°C-30°C (≤50% RH)
Temperature Durability	150°C
Water Contact Angle	107° @10 µL
Water Contact Angle After 10000 Wet Scrub (ISO-11998:2006)	101° @10 µL
Water Sliding Angle	17° @20 µL
Oil Contact Angle	87° @10 µL
Gloss Rate @60° (ISO-2813:2014)	96 (Acrylic)
REACH Compliance	Yes



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Durability

Normal Conditions (-20°C to +35°C / pH<12)
5 Years
Heavy Conditions (-40°C to +40°C / pH>12)
3 Years

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.

Only work on cool surfaces.

Clean the application surface thoroughly. If required, apply a clay bar and/or polish using appropriate tools and silica/wax free cutting compounds.

Eliminate the risk of water dripping onto the application surface. If water drips onto partially cured coating, repolish the affected area prior to refurbishing.

Prepare the surface by applying Nasiol® Clean to remove any residual contamination and dry with a clean, lint-free microfiber cloth prior to use of the product.

Route – 1: Application with an Applicator Pad

Outline the application area either by using a masking tape or visually. Coincidence of coated layers does not constitute a problem during the application. Do not work on an area larger than 1 m² at a time.

Shake the product gently before use. Drop a few droplets of the product onto the applicator pad with respect to the area and close the lid to prevent air-product interaction, which may cause deterioration. Spread out the product gently over the surface with a criss-cross motion. Do not use an applicator pad on more than two panels.

Once beading occurs, wipe the excessive amount of the product off the surface gently with

a short-feathered dry, lint-free microfiber cloth. Then with using a dry, long-feathered lint-free microfiber cloth, buff the surface in circular motion.

Route – 2: Application with a Spray Gun

Spray an essential amount of the product onto the surface with using a gravity-feed spray gun (HVLP is recommended) and buff immediately with a dry, lint-free microfiber cloth in circular motion. Do not work on an area larger than 1 m² at a time.

Keep the coated surface away from direct sunlight, dust, water and contamination for 24h. Do not wash the coated surface with detergent for 48h.

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 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.