

// ARTDESHINE

NANO GRAPHENE COATING+

THE ORIGINAL AUTOMOTIVE GRAPHENE COATING

The ultimate coating solution to fighting water-spots. First in the industry and the first choice of professionals. Artdeshine's NGC+ takes advantage of the beneficial properties of Graphene Carbon Nanotube technology and the functionality of advanced polymer materials to provide unparalleled performance. Experience the very best and be a cut above the rest.

**GRAPHENE CARBON NANOTUBE ENHANCED
FIRST IN AUTOMOTIVE SURFACE PROTECTION
WATER SPOTS REDUCTION
CO-DEVELOPED WITH EDUCATIONAL INSTITUTION**

Available sizes: 50ml, 100ml, 500ml, 1L



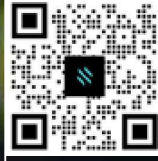
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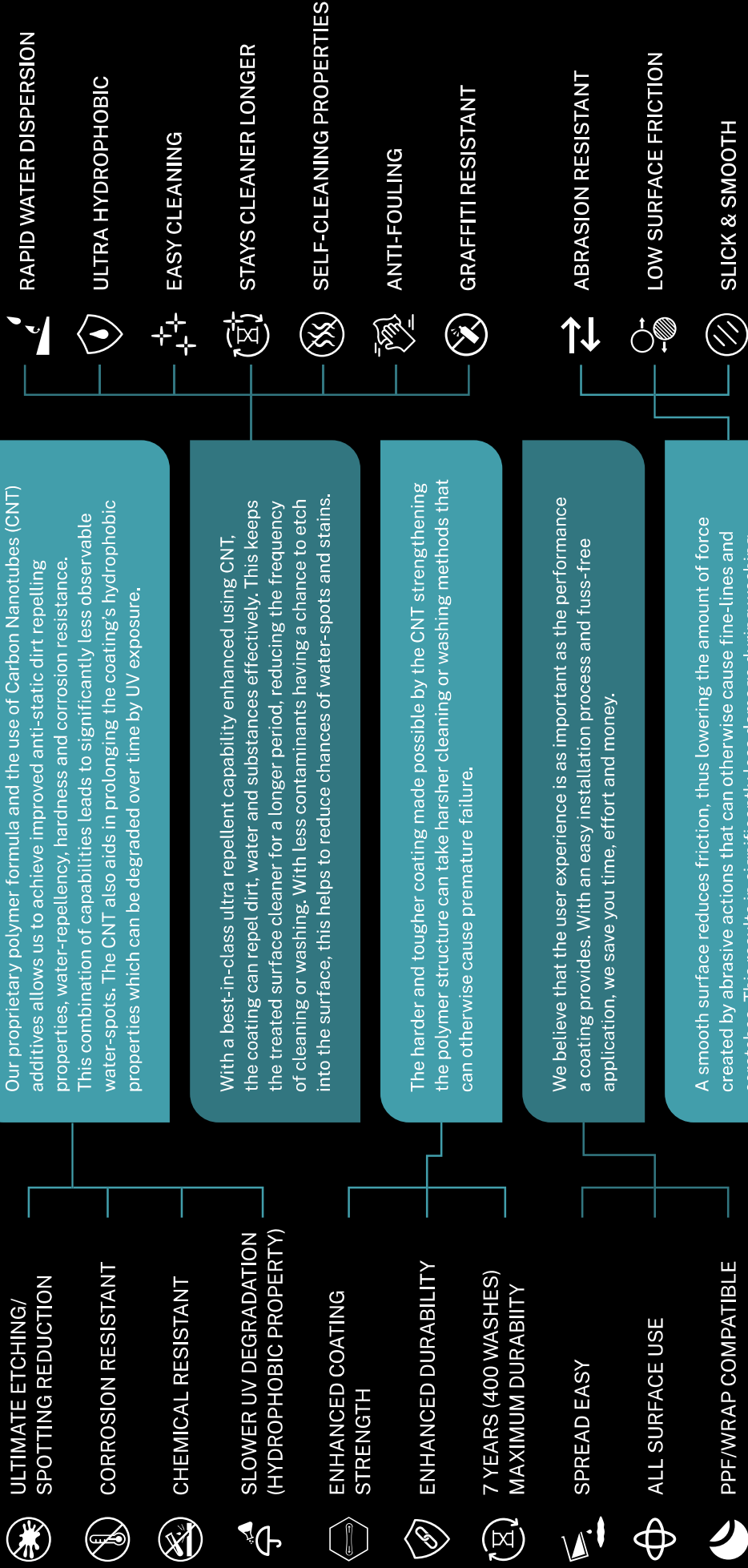
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out why!



Scan QR to view latest
Installer Guide



CAPABILITIES



FINISHING

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PRODUCT SPECIFICATIONS

COATING THICKNESS



WARNING:

To maximise coating longevity, do not ignore optimal coating thickness, consumption, curing and dwell times.

COATING THICKNESS TABLE

(following Dwell Timetable in Section 4)

Average Coating Thickness (µm or micron)	Average Consumption (ml/m²)
2.5	2.8-3.0
4.0 (optimal)	4.3-4.5
10.0	10.3-10.5

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SURFACE COMPATIBILITY

Gloss/Matte Clear Coats	✓
Gloss/Matte Paints	✓
Gloss/Matte Plastics	✓
Gloss/Matte Vinyl Wraps, Decals, Liveries	✓
Gloss/Matte Paint Protection Film (PPF)	✓
Glass	✓
Rubber Parts	✓
Chrome Treated Parts	✓
Raw Carbon Fibre Parts	✓
Anodised Metal Parts	✓
Raw Metal Parts	✓
Synthetic Leather	✓
Fabric	✓ (May cause yellowing on white)
Natural Leather	✗

Colour tones may deepen or darken especially on matte surfaces, matte clear coat or matte vinyl wraps. Always test a small area and inform the vehicle owner first!

May stiffen fabric.

Installing on glass windows and windshield will present application difficulties due to viscous state of product; installation on windshield may cause irregular wiper movement, durability not tested

Product might not bond well to certain non-clear coated metallic surfaces like chrome or anodised surfaces as these are non-stick surfaces.

PRODUCT SPECIFICATIONS

CURING

CURING TABLE

	Environmental temperature	Any method with wipe off	Any method with wipe off and infrared (IR) assisted
Surface Dry	Above 30°C 21 -29°C 15 -20°C	2 hours 6 hours 12 hours	20 min. (IR assisted) 30 min. (IR assisted) 40 min. (IR assisted)

Full Curing

Above 30°C	3 days
21 -29°C	5 days
15 -20°C	7 days

Application Methods – **Artideshine Saver Applicator, Applicator Pad.**
IR lamp set at constant between 40 -60°C, 1.0 -1.5 metres away from surface.



WARNING:

Curing process will be greatly affected if environmental temperature is below 15°C.

- Use IR to speed up the process of curing and allow coating to fully cure in a climate-controlled environment.
- Minimum of 2 hours IR assisted before full curing process of 14 days if climate-controlled curing is unavailable.
- Performance cannot be guaranteed if coating is left to cure at temperatures below 15°C, do this at your own risk!

Exposure before curing may result in diminished bonding, early deterioration of coating, occurrences of water-spotting, etching or corrosion

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APPLICATION

Application Tips

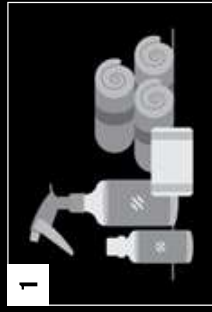
- Shake the bottle for at least 1 minute prior to usage.
- Remove plastic insert at tip of bottle and make use of pipettes provided for optimal consumption according to Coating Thickness Table in Section 1.
- For first time users, create 2 test spots 30cm x 30cm each. On one spot, allow product to dwell 5 minutes before wiping. On another, allow product to dwell 15 minutes before wiping. This will help ascertain dwell time relative to the application environment.

Working Area

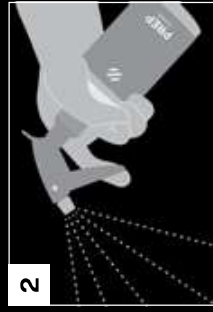
- Minimise levels of dust, moisture, heat and environment contaminants for maximum bonding effectiveness.
- Have sufficient lighting for better visibility of both top facing surfaces and side facing surfaces. Combination of warm (below 3000K) and cool lighting (above 4000K) will help with a proper installation.
- Have appropriate ventilation systems to avoid inhaling of vapours/gas
- No open flames, lighted cigarettes, running ovens or heating devices (blow torches, heat guns etc.)
- Optimal surface temperature 19-30°C.
- Optimal ambient temperature 21-32°C
- Do not apply on heated surface

PRODUCT SPECIFICATIONS

Application Process:



Make all necessary preparation like compounding, polishing, claying, decontamination, washing and cleaning before application process.



Utilise **Artdes shine Prep** to remove oil, fillers and polishing compounds.



Drip required amount (refer to Coating Thickness Table in Section 1) of product by dragging tip of bottle in a straight line directly or use pipettes to drip on **Artdes shine Applicator Pad** or **Saver Applicator**.



Apply onto surface no larger than 1.0m x 1.0m in circular and crosshatch motion for even coverage.



Applied product should look like spreading liquid glue, not dripping wet.

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Product will turn slightly cloudy after 15-20 seconds, depending on ambient temperatures allow product to dwell according to table below:

DWELL TIMETABLE

Dwell Time (minutes)

5 7 9 11 13

Ambient Temperature (°C)

Above 36 30-35 25-29 20-24 15-19

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Starting from the edges of applied area, wipe off excess with a clean and dry **T2 Microfiber (MF) Towel**. (grabby feeling is normal for this step)

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Using another clean and dry **T2 320GSM MF Towel**, buff off all residue, hazing, high-spots and smears in circular motion.

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Check for any remaining high-spots, smearing, uneven colour tones and streaking.

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Ensure surface is clear with no residue.



Repeat step all steps for adjacent areas. Take extra care at edges where applied and un-applied surfaces meet. Always apply and buff over the edges to ensure smooth joining.

Last resort removal 1 hour after application can be done with **Artdeshine Prep** or IPA.

After surface dry (refer to Curing Table in Section 3), any issues will have to be resolved by removal of the coating and re-applying. This can be done with a polishing machine using fine pads and compounds.

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TECHNICAL INFORMATION

Capabilities listed are maximum approximates and based on a single coat application on automotive clear coat that has been cleaned, decontaminated, polished and appropriately prepared.



Bonding durability (normal conditions): 7 Years

- 400 washes pH neutral
- Climate range -20°C to + 35°C



Bonding durability (extreme conditions): 7 Years

- 200 washes pH3-13
- Climate range -40°C to + 40°C



Hydrophobic properties durability (normal conditions): 7 Years

- 400 washes pH neutral
- 200 washes pH3-13



Hardness (SHORE A Scale): 57

Dirt Pickup Resistance (ASTM-D3719): 48,2ΔL



Chemical resistance: pH2 - pH14



Thermal threshold on treated surface (onset of degradation): 350°C



Average Water Sliding Angle on coated clear coat surface: 23,3°



Hologram (swirls) reduction during application:

- Micro-mesh above 6000
- FEPA sandpaper grade above P4000