



Graphene Leveling

Technical Specifications

Main ingredients (General terms): Siloxane Polymer, Polymer Resins, Siloxane Surfactant, Aliphatic Hydrocarbon Solvent, Reduced Graphene Oxide

None of the materials listed in this product are considered carcinogens in NTP, IARC or OSHA. Material Safety Data Sheet available upon request for more specific information on composition.

Solubility with water (in bottle): Not miscible

Appearance and odour (in bottle): Brown solution, non-pungent odour

Capabilities listed are maximum approximates and based on a single time application on automotive clear coat that has been cleaned, decontaminated, polished and appropriately prepared. This is not an indicator of performance when using on a surface pre-treated with Artdeshine coating products. More information for preferred after-care to maximise durability available.

Bonding durability (normal conditions): N/A

Bonding durability (extreme conditions): N/A

Hydrophobic properties durability (normal conditions): N/A

Hydrophobic properties durability (normal conditions): N/A

Average product thickness: 0.05- 0.15 μm (micrometre/micron)

Coating thickness effectiveness range: N/A

Surface suitability: Gloss/matte clear coats on automotive body or wheel, vinyl wraps, paint protection film (PPF) wraps, glass windows, acrylic parts, chrome/stainless steel/metal parts, gloss/matte plastic trims and fittings

Chemical resistance: N/A

Thermal threshold on treated surface (onset of degradation): N/A

Liquid substance repellence of treated surface: N/A

Hologram (swirls) reduction during application: N/A

Abrasion resistance: N/A

Force of friction on treated surface: $F = 0.045\text{N}$ (0.006g foam applicator block sliding off treated surface)

- Coefficient of static friction $\mu = 1.0$
(based on inclination 45° when applicator block starts sliding off)
- Normal force $N = 0.045\text{N}$
(based on inclination 45° when applicator block starts sliding off)

Consumption rate: 2-4 ml/m² or 15-20ml per mid-sized sedan (if priming surfaces)



Curing time (recommended): N/A

Appearance after curing: Optically transparent and increased reflectivity/gloss.

Solvent incompatibility:
None identified.

Products containing solvents such as acetone, 1-propanol, methanol, water, 2-propanol (IPA) in small amounts can be used with no significant impact.
(Contact Artdeshine to find out about product compatibility.)

Application (For priming surfaces)

Before application of Graphene Leveling, ensure surface is stripped of all existing products (e.g. waxes, sealants and spray detailers etc.), except coatings if using product to prime before applying maintenance products.

Working area should

- 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 (<3000K) and cool lighting (>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.)

Do not apply product under direct sunlight or a heated surface.

- Optimal surface temperature < 25°C.
- Optimal ambient temperatures < 32°C

If natural sedimentation occurs, shake the bottle well to evenly disperse the product.

1. Make all necessary preparation like compounding, polishing, claying, decontamination, washing and cleaning before application process.
(skip compounding/polishing if using as part of coating maintenance regime)
2. Utilise panel wipes, isopropyl alcohol (IPA), silicone removers to remove oil, fillers and other products (e.g. Artdeshine Silicone Remover)
3. Drip 8-10 (16-20 if priming applicator) drops of product by dragging tip of bottle in a straight line to and fro using Artdeshine Black MF Applicator Pad or Artdeshine MF Towel Application (any suede or microfiber applicator block and pads, MF towel are suitable).
4. Apply onto surface no larger than 1m x 1m in circular motion or cross-hatch motion for even coverage.
5. Product will display rainbow like colors under lighting after 10-15 seconds.
6. Starting from the edges of applied area, wipe off excess with a clean and dry microfiber (MF) towel.
7. Using another clean and dry MF towel, buff off all residue, hazing, high-spots and smears in circular motion.
8. Ensure surface is clear and feels slick. (smoothness can be felt when buffing with MF towel)



9. Repeat 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.
10. Coating installation can proceed immediately after application of Graphene Leveling.

Do not apply other products after priming surfaces except for desired product you wish to install.

Any issues should be resolved using above methods in the first 15 minutes after application as the coating will not have started curing.

Last resort removal 1 hour after application can be done with Artdeshine Silicone Remover or any panel wipes and IPA.

After 24 hours, any issues will have to be resolved by removal of the product and re-applying. This can be done with a polishing machine using fine pads and compounds.

Application (For resolving coating installation issues)

This product is formulated for use with Artdeshine products, it has not been tested on products of other brands.

During installation of coating products, the following issues may occur:

- Uneven colour tones
- High spots
- Streaking
- Hazing
- Smears

Graphene Leveling can be used in the midst of coating product installation or not more than 30 minutes after application to resolve these issues by using the following steps.

1. Immediately identify affected areas.
2. Drip 3-5 drops of product by dragging tip of bottle in a straight line to and fro using Artdeshine Black MF Applicator Pad or Artdeshine MF Towel Application (any suede or microfiber applicator block and pads, MF towel are suitable).

Alternatively, drip onto the same applicator used for your coating installation.

3. Spread onto affected area in circular motion.

This step does not remove but only dissolves the product to spread evenly

4. Surface will display rainbow like colors under lighting after 10-15 seconds.
5. Using the a clean/dry or the same MF towel for buffing/wiping during coating installation, buff off all residue, ensuring the issues are resolved.

If issues persist, use a damp MF towel to wipe over affected areas.

Buff off with dry MF towel immediately until issues are resolved.

6. Ensure surface is clear and feels slick. (smoothness can be felt when buffing with MF towel)



Storage and Warnings

This serves as basic and commonly needed information for safe handling and use of products. Material Safety Data Sheet available upon request for more specific information.

Shelf-life:

- 2 years unopened
- 6 months after unscrewing cap

Storage environment:

- < 30°C ambient temperature
- Cool and dry storage
- Do not store under direct sunlight
- Product is heat sensitive and gelation may occur if exposed to heat
- Do not store near open flames, ovens, heaters or flammable items

Sedimentation:

- May occur if stored still for more than 1 month
- Shake well until product is evenly dispersed or before use
- Always uncap carefully to release gas build-up after shaking bottle

Keep out of reach from children.

Always wear solvent resistant gloves when using. (Face and eye protection recommended)

Harmful if swallowed or ingested.

Irritant to eyes if contacted.

May cause skin irritation with prolonged un-protected use.

If swallowed: Rinse mouth. Do not induce vomiting. Call a doctor/physician.

If on skin . Rinse skin with soap and water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled: Move to well ventilated fresh air.

Warning symbols:

Do not inhale vapour and gas of product.

Use in well ventilated areas.



Flash Point : 85°C

Extinguishing Media : Water, dry extinguishing material

Special Fire Fighting Procedures : Normal caution when dealing with chemicals

Unusual Fire and Explosion Hazards : None