

## ION BASE / ION TOP User Manual\_v1

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## Product Description

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ION, the best ceramic coating with wear resistance. With CHOOSE NanoTech's Chemical Strengthening Technology, ION surpasses Diamond 9H's capabilities. ION not only increases surface hardness, but it also grants wear resistance, effectively avoiding possible scratches. Additionally, the protective effect remains intact regardless of weather conditions.

## Contents

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- KubeBond ION BASE: 50ml **or** KubeBond ION TOP: 50ml
- KubeBond Sticker: 1pc
- CHOOSE NanoTech Certification Sticker: 1pc
- QR Information Card: 1pc

## Product Features

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- Abrasion resistance
- Durability
- Thickness
- Superior hardness
- Stackable layers

## Suitable Application Surface

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Car paint, glass, mirror-finished, polished and chrome finish rims and exhaust, plastic surfaces, rubber and non-absorbent textiles.

## Consumption

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1ml of ION can be applied on a 30cm by 30cm area.

50 ml, or one bottle, of ION BASE is enough for 2 layers of application on a medium sized sedan. 25 ml, or half a bottle, of ION TOP is enough for 1 layer of application on a medium sized sedan.

## Preparation

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### Working environment

- Weather conditions should be 25°C (indoors), 60% to 70% humidity.
- If the working environment is lower than 20°C, the curing process will be slower.
- In a colder environment, there will be plenty of time for you to fix the coating film.
- To make application easier, you can store ION in the refrigerator before application. Do not store it in the freezer or in an environment below 5°C.

### Lighting

- Make sure you work in an environment with enough light sources
- We recommend checking the application outcomes using white light, yellow light, refracted light and LED handheld light in advance.

### Cleaning

- Thoroughly clean the painted surfaces removing tar, bugs, dirt, tree sap, water spots, fingerprints or any other contaminants.
- It is recommended to use KB Cleaner or a solvent-based product rather than Isopropyl Alcohol.
- Straight alcohol will NOT thoroughly remove oil nor polish residues which may compromise the durability of the coating.
- When wiping down the surfaces, always use clean microfiber towels.
- KB Cleaner should be applied to the microfiber towel, not directly to the surface.
- Make sure that the surface is dry after removing all residue.

## Preparing tools

- Prepare all the necessary tools on a working trolley so there is no accidental damage to the surface of the car.
- Gather one clean KB BLUE microfiber towel, which is customized for coating application for a thicker finish because it's less absorbent.
- Gather one clean KB ORANGE microfiber towel, which is good for fine tuning since it is much absorbent.
- Set up a timer or a mobile phone with a stopwatch function, and a flashlight.
- Make sure you wear gloves before applying the coating.
- Cover glass, plastic, and rubber elements of the car with automotive masking tape if applying coating with a spray gun.

**NOTICE!** The next steps of the process are only to be performed by trained professionals. Request assistance from a professional in case you do not have relevant experience in car polishing.

## Apply KB Nano Primer

- Shake Bottle for at least 10 seconds right before the application.
- Apply some drops of KB Nano Primer on a soft buffing pad of the polishing machine.
- Adjust the polishing machine to minimum speed (600-1000 RPM) and spread the product on a small surface section ( $\leq 1$  sq. mt.) without pressure nor heat.
- Remove the residue with a microfiber towel right after buffing.
- Wait approximately 1 hour before starting to apply KB ION.

\*KB NanoPrimer is only for painted surfaces of cars. It is recommended for warranty purposes to use KB Nano-Primer, visit our website to know all the benefits of KB Nano-Primer.

## Application Steps

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### 1. Application method

#### With coating sponge

- Pour a generous amount of the product on the sponge, about 20 drops.
- Apply the product with circular/zigzag movements, without pressure. If you are not familiar with the application of ION, start working on small segments (no more than 60 x 60 cm). Make sure not to leave any part uncoated.

#### With a spray gun

- Spray gun application can only be done by a specialist.
- Pour the product in a spray gun's cup. If you have a KB spray gun adapter, turn the spray gun over and attach the bottle with the product.
- Applying the product in a cross-hatch pattern, segments must overlap in the process of application.
- Make sure the segment is fully covered and no part was missed.

## 2. Leveling

- Use a timer and wait for 30~60 seconds. If the ambient temperature is above 25°C, start leveling the layer right after the application.
- After 30~60 seconds start leveling the layer with the BLUE microfiber towel. Start with quick intensive CIRCULAR movements without applying any pressure on the towel, and finish with longer movements, extending from side to side of the treated segment.
- Repeat this action with the same side of the towel until the coating residue is fully absorbed.
- For the final leveling, take a clean ORANGE microfiber towel and slightly wipe the treated surface until it becomes perfectly glossy. Use the flashlight to check the surface for roughness, swirls and blurred parts. Repeat the leveling process if required.

## Multi-Layering

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Waiting too long between layers of Diamond 9H results on the surface being too hydrophobic, preventing the next layer to bond. Unlike 9H, ION BASE allows multi-layers even when it is fully cured.

To achieve full thickness, ION BASE layers should be completely dry. When the particles are dry, they acquire a connector shape, so each layer is ready for another connector layer to be staked on top, like Legos.

### Recommended Layers and Desired Outcome

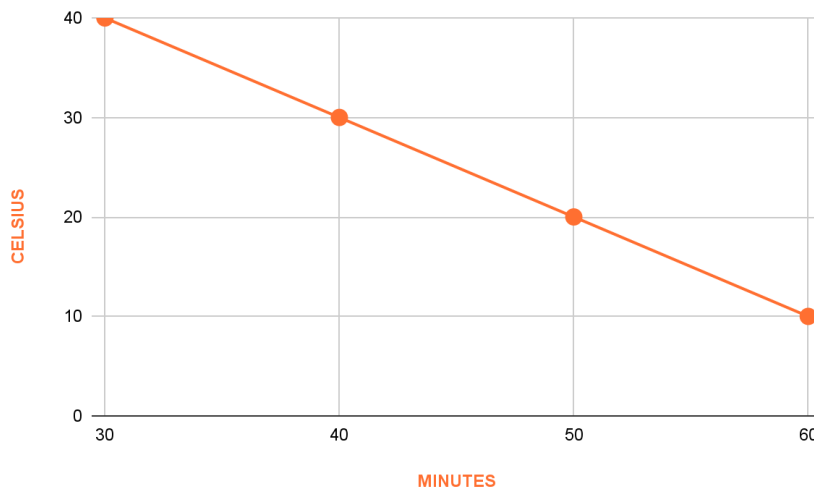
Basic-Combination: 2 layers of ION BASE + 1 layer of ION TOP

Outcome: Abrasion resistance, thickness, anti-graffiti

Equivalence			
ION		Diamond 9H	
2+1	=	4+1	
4+1	=	8+1	

## Layering ION BASE coat

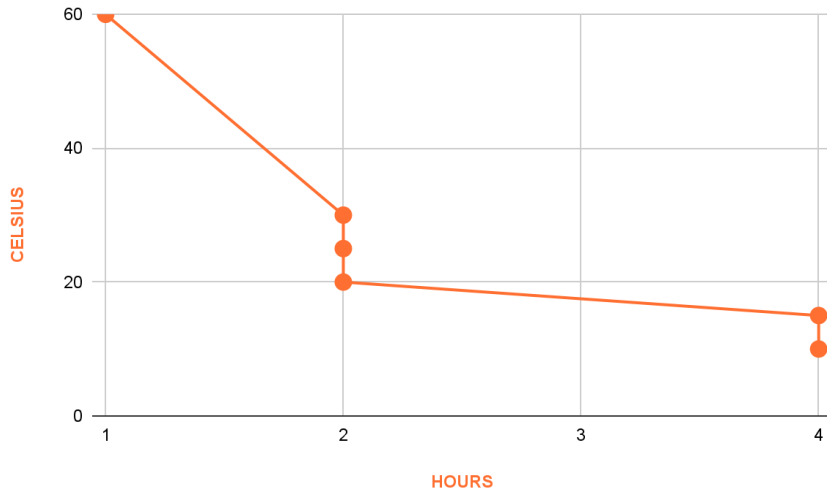
- Curing the first layer BASECOAT with IR curing lamp is suggested. This will reduce curing time, and increase production.
- Apply the next layer at will, as long as the first layer is heated for more than 30 minutes. Use the chart for time and temperature as a reference.
- For curing without IR lamps, wait for a minimum of 1 hour between every layer.



## Before ION TOP coat

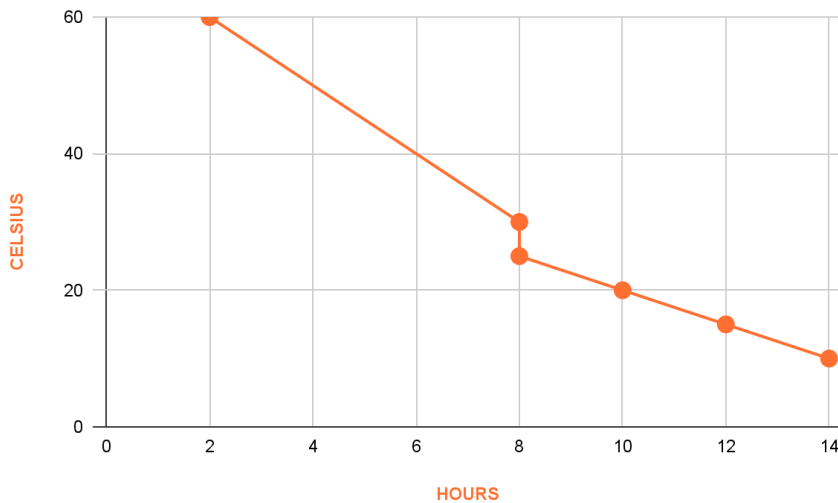
- When the final layer of ION BASE is applied, cure with an IR lamp for 1 hour (refer to the graph below).
- After the final layer is cured, apply ION TOP, with the same application method as ION BASE coating.
- For curing without IR lamps, wait 2 hours before applying ION Top.

- In order to activate the features of the ion exchange technology, Do not skip ION TOP coating.



### After ION TOP coat

- The coated surface must be heated for 2 hours with a surface heat of 60C (refer to graph).
- It must cool down to ambient temperature





## **Full Curing Condition Needed**

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- The vehicle needs 72 hours to reach full curing, so avoid contact with water within this time. The water droplets on the surface will create water spots that can only be removed by polishing and reapplying full coating. If the water becomes in contact with the surface, dry immediately.
- After 7 days, get the car to be returned to a KubeBond service center to do the first clean and to check the coating's condition through a QCT test.

## **Maintenance after Treatment**

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- Do not wash the car with car wash machines.
- Do not use wax on the car body after coating treatment, since wax contains abrasive micro-particles.
- To get the best quality out of your coating, please get the car back to the service center every 2 to 3 months to do coat maintenance work.

## **Basic Maintenance with Diamond Plus**

- For basic maintenance spray Diamond Plus 2 to 3 times onto a damp cloth and apply where needed.
- Apply evenly on the car body. Do not touch the surface or let it come into contact with water within 8 hours of application.
- Diamond Plus will create Nano-hair on the coated surface and restore hydrophobic effect after each maintenance.

## **Light Contamination (removable with water & soap)**

- 90% of contamination cases are minor and easy to remove.
- Clean the car with water and a neutral detergent only.
- Dry the car body.

- After the stain is removed, apply Diamond Plus to restore hydrophobic effect.

## Medium Contamination (non-removable with water & soap)

- Use Nano Primer to polish the stained part.
- Re-apply one layer of ION Top to restore the hydrophobic effect of the polished part.

## Extreme Contamination (removable by machine polishing)

- This type of contamination is commonly caused by time or the elements.
- If the stain has severely damaged the coating surface, machine-polish the damaged part with an abrasive compound to remove the coating.
- Clean the surface with Nano Primer for the preparation process.
- Redo all layers with ION BASE and TOP (same as in the chosen package) as explained before on the damaged part.

## Storage Method

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- Please store the products upright and keep them away from flames and flammable materials.
- The suitable storage temperature is 5°C to 25°C. Do not freeze it.
- Shelf life for unopened products is 2 years.
- Seal the bottle tightly after opening. Otherwise, the product may start to cure when it comes into contact with air.

## Warnings

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- Once ION is dry, it cannot be removed with chemicals. It can only be removed by machine polishing.

- This product is not harmful to skin. If the product comes in contact with your skin, clean it off with water.
- If the products come into contact with your eyes, please wash your eyes with large amounts of water. If discomfort remains, seek medical help immediately.
- This product is not edible. Please store them away from children's reach

## **Frequently Asked Questions**

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### **Why does the car still get dirty after coating?**

The car will still get dirty as usual. Check our maintenance guide. The car body still needs to be maintained and washed after a coating treatment. The coated area only makes the surface less likely to get dirty. Even when the surface gets dirty, it will be really easy to clean because of its excellent hydrophobic effect.

### **Why does my car have water marks?**

After coating treatment, the surface will become perfectly hydrophobic. It makes the water droplet stay on the flat surface. When the water droplet dries up, it leaves behind the dirt. You will see this as dirty spots. However, it is very easy to clean the dirt using water and neutral detergent. On the other hand, if there was no coating treatment, the dirt will be evenly distributed on the car surface making it difficult to notice and clean off. The sun may calcify the dirt on the surface, don't wait for too long to clean the car.

### **Is my car scratch resistant after the coating treatment?**

Applying multilayers of ION will reduce the risk of scratches. However, if a hard force is applied, it will still damage the car paint and panel parts. You may consider Paint Protection Film to protect the car from rockchips and keying.

## **Why is it necessary to apply KubeBond Nano-Primer before an application process?**

KubeBond Nano-Primer is not a regular polish compound. It is a coupling agent, which will increase the adhesion strength of the product and make the paint particle stay tight.

It is able to prevent the product from penetrating into the gaps between the paint particles that will cause uneven patches to appear on the surface.

## **Is it possible to use ION with Paint Protection Film?**

Yes, using ION after PPF application adds hydrophobic effect to the outside layer.

## **Why do rainbow stripes appear on the surface after application?**

If ION is applied incorrectly, it will create an uneven layer. That layer is residue and it hasn't been wiped down correctly. The uneven surface will make the light refract and cause the rainbow stripes to appear on the surface.

To prevent this, we recommend that you apply our products in a bright environment and check the finished area with lighting devices.

## **How did you test the coating thickness?**

The thickness measurement is tested by SGS, a third party authorized organization. SGS uses OM with a magnification of 1,000. It is a precision instrument used to provide objective data reports. Please refer to the SGS test report for more information.