

AeroZane 9H Ceramic Coating

Preparation & Application Instructions

Approvals:

Boeing D6-17487

Airbus AIMS09-00-002



AEROSPACE MATERIAL SOLUTIONS

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AEROZANE 9H

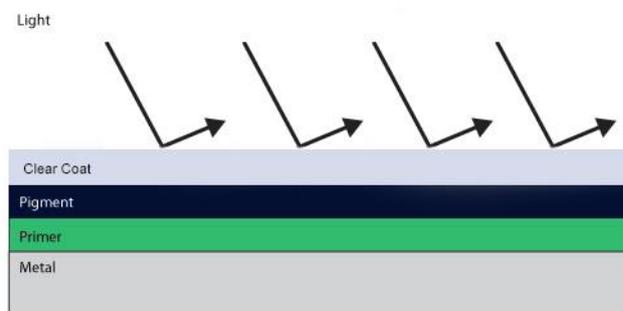
Introduction to Ceramic Coatings

Ceramic Coatings are the latest development in paintwork protection. Ceramic Coatings or 'Glass coatings' as they are sometimes known offer by far the most protection for your aircraft. Ceramic coatings when cured, this technology will transform itself on the surface to a permanent, durable yet flexible glass shield. Ceramic coatings act almost like additional clear coat, with 3 times the hardness of conventional paint and self-cleaning properties. Ceramic paint coatings can offer durability of up to 5 years from one application and with that far greater resistance to UV rays, industrial fallout, paint contamination and even scratching. Paint that has been sealed with a Ceramic Coating is also much easier to clean, which is why they have become so popular over the last few years. The main downside of using a ceramic coating compared to a traditional car wax is they are far harder to apply and require much better surface preparation. The paint surface needs to be completely free from both scratches & swirls as well as free from all contamination. Application also requires more attention than a regular wax or polymer sealant.

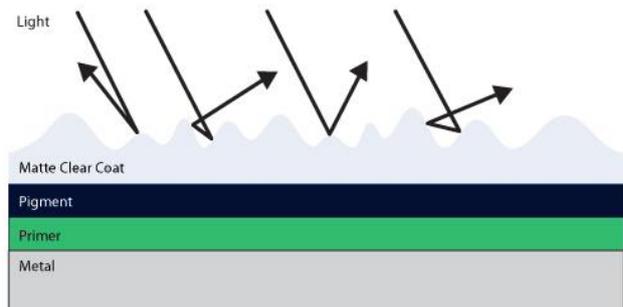
Advantage	AeroZane 9H	Polymer	Wax
Gloss	*****	****	***
Durability	*****	***	*
UV Protection	*****	***	
Scratch Resistance	*****		
Stain Resistance	*****	**	*
Oxidation Resistance	*****	**	
Corrosion Resistance	*****	*	

Surface Preparation

The most effective procedure to ensure the resulting ceramic coating finish achieves the optimum finish is to remove any oxidation or staining on the surface of the paint before application of the coating. This will ensure that the finish will achieve a high gloss, maximum adhesion and optimum protection to the painted surface.



When the condition of the paint film is good, light reflecting off the surface is direct which has the appearance of high gloss.



Old dull and oxidised paint will reflect light in different directions resulting in a low gloss. Another important factor is that the surface of the paint being rough, will increase drag increasing the fuel burn of the aircraft.

Depending upon the amount of oxidation of the paint, there are two methods to choose from to prepare the surface.

Heavily oxidised paint.

Generally, paint which has no gloss and feels rough to the touch. The best way to prepare this surface is to use very fine sandpaper, something like SiaAir 1000 or 2000 grit. Once removed, use 4000 grit to minimise swirl marks. The final step will

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be to use a polishing compound, Granitize XC10 will work well. Use a random orbital polisher, the Rupes Bigfoot machine is ideal for this step.



The final stage of preparation once the painted surface is looking new and glossy is to ensure there are no residues or dust on the surface. A thorough wipe down with alcohol and a microfiber will work well.

Lightly oxidised or dull paint.

Usually if the aircraft has been well maintained and or hangered, bringing back the gloss will only require buffing with Granitize XC10 with the Bigfoot buffer. When complete, as above, ensure the surface is clean.

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Coating Application Instructions.

1. Apply in 2'x2' (60cm x 60cm) sections.
2. Drip 4 to 5 few drops of liquid coating onto an applicator pad or V-100 wipe and lightly apply it on the paint evenly by using a cross hatch pattern (horizontally then vertically).
3. Wait 1-5 minutes depending on the temperature of the working environment. You will see a faint separation or "flash" when it is ready for the next step.
4. Using a 400GSM clean lint free microfiber towel gently wipe the treated areas in straight lines to remove any excess coating and to level out any "high spots". Use only very! very! light pressure, just enough to keep the microfiber towel in your hand. **Do Not Create Excess Friction.**
5. Next flip to clean high pile side of microfiber and repeat the buffing again. Again, use only very! very! Light Pressure, just enough to keep the microfiber towel in your hand. **Do Not Create Excess Friction.**
6. Final Check the panel for excess coating or "high spots" and lightly even out the coating.
7. Leave to dry between 45 minutes to an hour before applying another coat. The maximum number of coats is 3.

*DO NOT WET OR TOUCH THE PAINT WORK WITH FOR 24 HOURS. We suggest not using the aircraft for 24 hours after coating. **DO NOT WASH FOR 7 DAYS!!** to allow for max cure and hardness.



Applicator Pad

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Exclusive to:



A E R O S P A C E M A T E R I A L S O L U T I O N S

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