

# CERAMIC<sup>PRO</sup> AIR

PROTECTIVE CERAMIC COATINGS  
FOR AVIATION



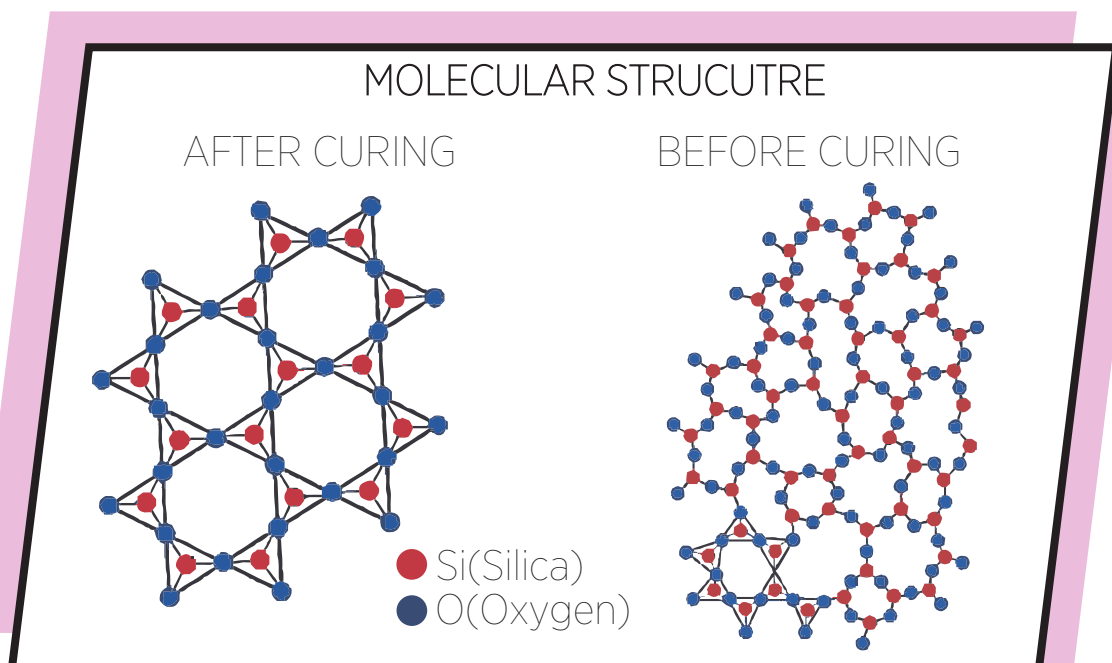
# THE NEW AGE OF PROTECTION IN AVIATION



Ceramic Pro coatings developed by NanoShine Group are transparent liquids containing nanoceramic components.

Being applied to a surface, the product crystallizes from contact with air, forming an extremely thin protective layer.

A special matrix structure of the coating increases its hardness and resistance to scratches, solvents, acids, alkali, UV and oxidation.



# CERAMIC PRO AIR

Ceramic Pro Air protects air vehicles from corrosion and icing on high altitudes. It also improves aerodynamic properties of coated objects which has been proven by tests in wind tunnel. All the declared properties of the product including corrosion and aggressive chemicals resistances and hardness of the coating have been proven by certificates from SGS laboratory.

## Wind tunnel test results



Speed of air current (m/s)	Drag (N)		Drag reduction (%)
	Cylinder without coating	Cylinder with coating	
8.1	5.87	5.69	3.0
10.4	9.68	9.47	2.1
14	17.68	17.35	1.8
16	23.11	22.79	1.4
18.1	29.16	28.76	1.4

Certificate:

[https://www.dropbox.com/s/84kh1agbv5wo59/CP\\_wind\\_tunnel.pdf?dl=0](https://www.dropbox.com/s/84kh1agbv5wo59/CP_wind_tunnel.pdf?dl=0)

# PROPERTIES

Durable and reliable surface protection

Hardness of 9H provides high wear resistance

Guarantees strong dirt and water repelling effect

Effectively permeates and protects the surface of various materials

High chemical resistance  
Prevents oxidation and corrosion

Provides protection against extreme temperatures

High quality protection

Great weatherability; prevents aging surface damage

“Anti-graffiti” property preserves perfect appearance and provides easy-to-clean ability

Fluorine-free: safe for human health and environment

High resistance to salts

Easy washing and maintenance

## VIDEO

A few videos demonstrating various properties of Ceramic Pro products

Acid on brass test (0:36)

AntiGraffiti/AntiVandalism (2:24)

Test on textile (2:09)

Fire test on the paint of a car(1:21)

Demonstration of the structure(2:24)

<https://youtu.be/ByePxFrLfu4>

<https://youtu.be/WgOkrtHk-Rl>

<https://youtu.be/msXXEG81bYU>

<https://youtu.be/J9oWGuS4bk4?t=26s>

<https://youtu.be/4UUANNEIBvU>

## Cases in aviation industry:

Ceramic Pro Piper Archer III (2:24)

Ceramic Pro Eurocopter EC130 (3:08)

Advance Star Helicopter (4:09)

Video Review Brisbane (2:02)

1940 Ryan ST plane (1:43)

Feedback from the US (0:50)

[https://youtu.be/hNq5W\\_rz-Dc](https://youtu.be/hNq5W_rz-Dc)

<https://youtu.be/NzdXBNX1Dx8>

<https://youtu.be/ONreo39XwJE>

[https://youtu.be/4eDZGx\\_UvF0?t=1m30s](https://youtu.be/4eDZGx_UvF0?t=1m30s)

<https://youtu.be/bFtQxwwioo8>

[https://youtu.be/\\_-QNuhuwr88](https://youtu.be/_-QNuhuwr88)

You can find more videos by the link:

<https://www.youtube.com/user/CeramicProOfficial>

# INTERIOR PROTECTION

Ceramic Pro products are also perfect for protection of air vessel's interior



Ceramic Pro Leather: Protection of leather elements



Ceramic Pro Plastic: Protection of plastic parts



Ceramic Pro Rain: Protection of glass and windows



Ceramic Pro Textile: Protection of cloth elements



# CASES

## AUSTRALIA



## BRAZIL



## RUSSIA



## UNITED KINGDOM



## KAZAKHSTAN



# CERTIFICATION

All Ceramic Pro products have been certified in SGS labs. SGS is the world's leading organization providing inspecting, expertise, testing and certificating services. Ceramic Pro coatings have received the highest results in all the tests. No other modern coating has been tested for:

Corrosion test (ASTM B117)	Result: Unaffected
Hardness test (JIS 5400)	Result: Above 9H
Flexibility test (ASTM D522)	Result: 0mm of loss at 180o rotation
Impact test (ASTM D2794)	Result: 80/80 inch-lbs
Acids and alkali (JIS K5400 (1990))	Result: no visible damage
Heavy metals	Result: None
Toxicity test (SVHC)	Result: No toxic substances

Copies of all certificates you can find by the link:

[https://www.dropbox.com/sh/7b8zy1615ugvvyv8/AADCxCz8sB9e0ExHdWrca\\_yza?dl=0](https://www.dropbox.com/sh/7b8zy1615ugvvyv8/AADCxCz8sB9e0ExHdWrca_yza?dl=0)

