# Glass coating for car body

# ZC100

[ZC1000] is a hardly-oxidized agent whichcan form glassy coating films without organic materials like mineral oil based solvent, which are generally included in other existing coatings.

This product is a one-pack type glassy one which is cured together with the under layer, paint coating films. /It is completely VOL free and meets Japanese Food Sanitation Act.

### GREAT DURABILITY EXCELLENT WEATHER RESISTANCE PROFOUND FEELING BRIGHTNESS

HIGH WATER REPELLENCE

FORMING EXCELLENT HARD COATING FILMS

ZEROCOAT

### PERFORMANCE

#### Beautiful brightness and Super water-repellent effect

The Siloxane bonded coating films make a car body water-repellent and brighter than a new car and its gloss can be kept semi-permanently.

#### Excellent hard coating films and antistatic effect

The hardness of the coating films based on Organosiloxane is enough high to protect the under layer, paint coating film from small scratches (Pencil hardness: 6-8H)

The electrostatic voltage is low and stays in a short time. So just a small quantity of soot stick to the surface and it is easy to remove the soot only with water.

#### Superior antifouling effect

The coating films formed by ZC1000 have superior antifouling effect and keep a car body away from oil spots. They also have excellent heat-resistant effect and they are also hardly-soften even under high temperature. So the surface does not include soil inside and a car body can be maintained only with water. Insects stuck to a car body while running on highways can be also removed easily.

#### Excellent weather-resistance and durability

Inorganic coating films are not affected by heat nor UV. They protect a car body from saltwater, acid rain and dead insects while keeping a car body highly bright.

#### One-pack type & Solvent free

ZC1000 is a solvent free coating agent and does not contain VOC which is generally used in other coating systems and paints. Therefore, this is an environment-friendly and technologically innovated product for next-generation.

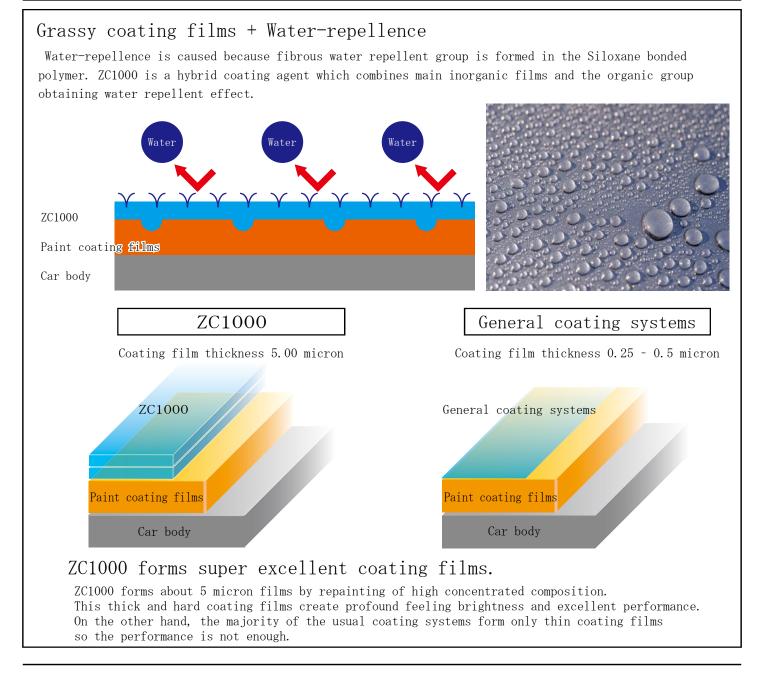
#### Use of Nanotechnology

Organosiloxane oligomer particles sink to the surface of under layer, paint coating films before curing and form very hard coating films together with the paint coating film. They are inorganic & glassy, staying on a car body to protect it semi-forever.

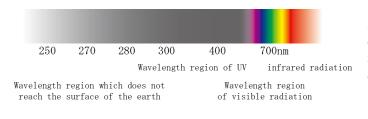
## TECHNICAL DATA

Item	Result	Testing method	Performance comparison vs competitors		
Hardness of coating films	6-8H	1ISK5600 5-4	Product	Existing other polymer (Competitors)	ZC1000
			Degradation	Degraded by UV and Oxidation	No change
Mirror brightness	88	JISK5600 47 (60°)		(Powdering)	
Chemical resistance	Passed	Spot test for 1 month	Stain	Stains sink intosurface by heat	Easy to be removed
Solvent resistance	Passed	Spot test for 1 hour		0il slick and water deposit on surface	Easy to be removed
Water resistance	Passed	JISK5400 (dipped in city water for 1 month)	Iron powder	Attached on surface (No resistance)	Not attached
Boiling water resistance	Passed	JISK5400	Bird's dmopping, insects	Attached on surface (Degraded by	Easy to be remove d
-	D 1			oxidation)	
Freezing & melting resistance	Passed	ASTM 150C/C-20°C~20°C	Scratches while cleaning	Easy to be scratched because it is easy to	Difficulto be scratched because
Flammability	Non flammable			reach the under layer, pain coating films	highly strong coating films on the
Water permeability	0 ml	JISA1404		directly.	under layer, paint coating films.
Heat resistance	500°C	Temperature to become hydrophilic	Durability	Easy to be remove d while cleaning a car	Difficulto be remove d because
				body or raining because it is just put on the	very hard coa ting film are formed
Salt water resistance	Passed	JISZ2371 Salt spray test		surface of the under layer, paint coating	together with the under layer, paint
Acceleratedweathering performance	Passed	Sunshine weather meter 3000hv		films.	coating films.

### MECHANISM



### Degradation by the influence of UV



The usual coating systems cause the degradation phenomenon like chalking to organic resin due to the influence of UV.

ZC1000 is a coating agent which forms films compromised of inorganic polymer based on non-flammable material, Silica. It does not contain any absorbers which damage organic materials with degradation and decomposition in the UV wavelength region (280 - 400nm), therefore it is difficult to suffer degradation.

Exclusive Distributor

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