

Cerazan® Products

CA-COLOR™	Interior & Exterior coatings for Architecture
CF-COLOR™	High durable Flooring coatings for Concrete
CG-COLOR™	Colored coatings for Glass
CM-COLOR™	Anti-oxidant & anti-corrosion coatings for Metals
CS-COLOR™	Preservation & Stain coatings for Wood
SOLKEEP™	Water repellent coatings for Exterior
CONSLIP™	Concrete Formwork release agent
ZEROSLIP™	Non-slip coatings for Flooring
NOSTICK™	Anti-stick coatings

Created by the synthesis of organic and inorganic water-soluble nano-silicone polymer

Cerazan®
Waterborne Nano Silicone Paints



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Cerazan®

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Cerazan specialized polymers are condensed forms of organic-inorganic complex nano materials and products are typically provided low viscosity liquids. Two basic classes of Cerazans are available.

The 1st Silicon Ladder Polymers which can be activated to form a crosslinked network through the additional of heat. And it contains over 95% non flammable materials which has good surface hardness, superior chemical resistance and heat resistance. Cerazan® polymers have exceptional high temperature stability, anti scratch property and, once cured, can be exposed to harsh thermal and chemicals environments in accordance with hybrid technology

Innovation in techniques of Organic-inorganic Complex Coating

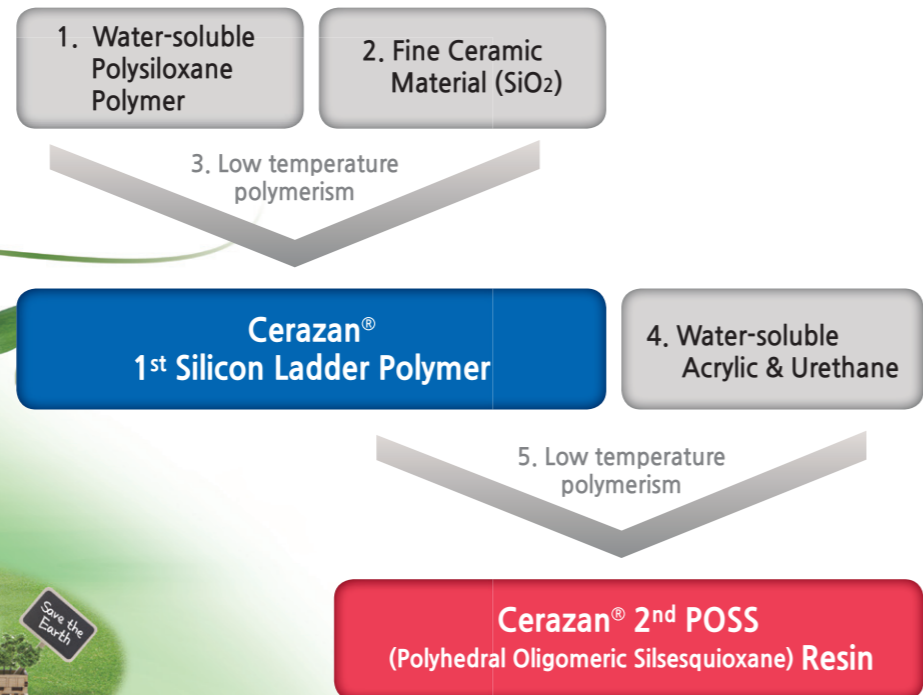
Silicon Ladder Polymer

- Competitive price through localization
- Curable at Low Temp / RT - under 150 degree
- Good adhesion for variety substrates
- Good pigment dispersibility
- Easy to control the NV

Polyhedral Oligomeric Silsesquioxane

3 dimension hybrid process with organic polymer through FLOWTECH's independent new technology.

Cerazan® Manufacturing Process & Main Ingredients



Characteristic of Cerazan®

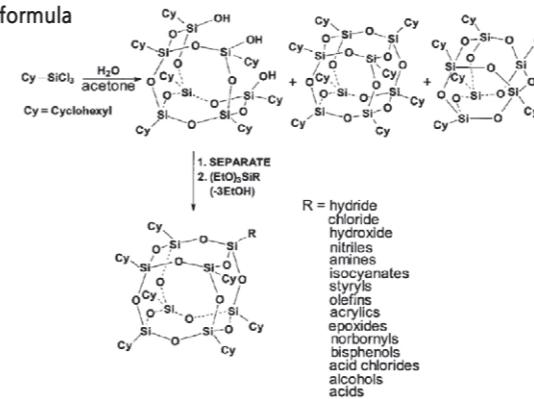
Characteristic of 1st Silicon Ladder Polymer

- Heat Stability : 500 ~ 1,100°C
- Cold Resistance : -60°C
- Chemical resistance : Organic solvents insoluble, no change HCL 20%
- Surface Hardness : Mishibishi pencil 5~7H
- Electrical Characteristics : Moisture absorption ratio below 0.3%
- Water repellent : Permanent
- Gas Permeability
- Light transmittance : 94%

Characteristic of 1st Resin

- Contains over 95% non flammable materials.
- Offers good hardness film and good heat resistance.
- Suitable for thin-layer coatings.
- Suitable for substrates without finishing process.

Structural formula



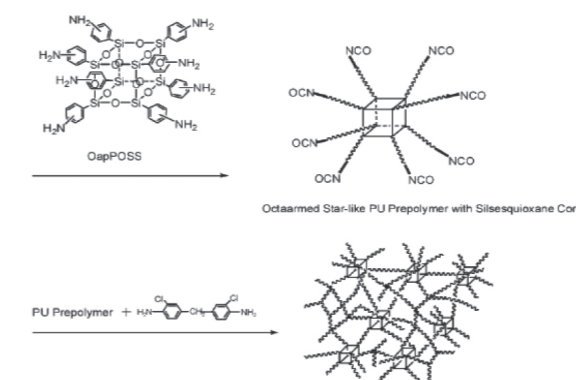
Characteristic of 2nd POSS (Polyhedral Oligomeric Silsesquioxane) Resin

- Heat Stability : Below 250°C
- Cold Resistance : -30°C
- Chemical resistance : M.E.K solvents rubbing 100 pass , no change HCL 20%
- Surface Hardness : Mishibishi pencil 2~5H
- Electrical Characteristics : Moisture absorption ratio below 0.3%
- Water repellent : Permanent
- Gas permeation prevention
- Light transmittance : 91%

Characteristic of 2nd Resin

In accordance with organic and inorganic hybrid process, it can be applied for almost all industrial applications. It offers high durable film, good flexibility, no crack with thick film and good adhesion.

Structural formula



Application of Cerazan®

Concrete coatings

- Concrete floor coating
- Semi-permanent roof water repellent coatings
- Anti efflorescence
- Clean water repellent for architecture
- Non slip coatings
- Concrete surface enhancer
- Anti dust agent



Architecture coatings

- Interior & Exterior coatings for Architecture
- Anti mildew coatings
- Anti pollution coatings
- Flame retardant coatings



Wood coatings

- Flame retardant coatings
- Stain coating for Dampproof, and protection against insects
- Clean coating for furniture



Plant coatings

- Anti corrosion coatings for plant
- Oil pipeline corrosion resistance coatings
- Salt damage resistance
- Heat stable coatings refined oil plants



Marine and heavy duty coatings

- Anti fouling coatings
- Corrosion resistance coatings. For heavy duty
- Friction control coatings
- Salt damage resistance for sea structure
- Flame retardant coatings for ship interior
- No slip coatings for deck



Metal anti-oxidant coatings

- Corrosion resistance for PCM
- Anti finger print and anti dirt
- Plating, Metal anti oxidant coatings
- Color coating for exterior panel



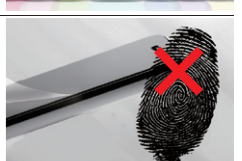
Plastic coatings

- Scratch resistance
- Enhance heat resistance
- Solvent resistance.
- Anti Static electricity



Optical films

- Anti finger print property
- Scratch resistance
- Hard coatings for IMD film
- Anti glare coatings



Electrical & Electronic coatings

- Heat resistance coatings for Lithium-ion battery membrane
- Insulation coatings
- Insulation and heat resistance for PCB
- Insulation coatings for CCL



Glass coatings

- Defense Ultraviolet ray
- Defense infrared ray
- Colored glass coatings
- Blackboard coatings

