



Eco-Friendly

**NON-STICK COATING**

Non-Toxic

**SINOGRACE**

The Chemical Company

## Ceramic Coatings

### C-109 Water based black two layer ceramic non-stick coating

#### DESCRIPTION

C-109 is two layer black ceramic coating, smooth hand feeling, excellent surface performance and chemical resistance. Superior initial non-stick property, easy to clean. It's ideal for internal coating and external coating of frying pan, stock pot, baking tray, electric fry pan and inner pot of electric cooker etc.

#### TYPE

Ceramic nano material

#### KEY

- PFOA free and excellent heat resistant
- Excellent and lasting non-stick performance, easy to clean
- Excellent chemical resistance, corrosion resistance and abrasive resistance

#### FEATURES

<b>TYPICAL PROPERTIES</b>	<b>Appearance</b>	Black liquid (Primer and top)
	<b>Solid content (%)</b>	35±1
	<b>Viscosity (cp)</b>	600~900 Primer 400~700 Top
	<b>Density (g/ml)</b>	1.20 Primer/1.30 Top
	<b>pH</b>	8-11(Primer and top)
	<b>Color of the film surface</b>	Black (Flat and smooth)
	<b>Curing temperature (°C)</b>	280-300
	<b>Gloss (60 °glossimeter)</b>	10-20
	<b>Film thickness (µm)</b>	34-50
	<b>Non-stick performance Fry eggs at 170±10°C</b>	>8 cycles
	<b>Corrosion resistance Boiling 10% salt water for 24 hours</b>	No blister
	<b>Abrasion resistance 3KG/21cm<sup>2</sup></b>	>4000 cycles
	<b>Hardness (ZHONGHUA pencil)</b>	>6H

#### APPLICATION

- Internal coating and external coating of frying pan, stock pot, baking tray, fry pan and inner pot of electric cooker etc.

#### STORAGE

#### AND

#### HANDLING

- Available in 20 kg/ barrel or 30 kg/ barrel
- Store products in tightly closed original containers at 5-35°C
- Shelf life: 6-9 months from delivery date
- According to non-dangerous goods transport

Anhui Sinograce Chemical Co., Ltd.

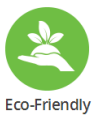
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## 1. Requirement on pre-treatment

- Firstly, apply high-temperature degreasing, then wash with 1%~3% NaOH solution (60°C) for more than 6 minutes, dry it after water rinsing;
- Blast with 80#~120# corundum to make the surface roughness reach 2.0μ~3.0μ, pay attention to sandblast evenly;
- Wash with 1%~3% NaOH solution(60°C) for more than 6 minutes, rinse with water;
- Wash with 1%~3% hydrochloric acid solution (60°C) for more than 6 minutes, rinse with water and dry.

## 2. Preparation of the coating

- Dispersion of coating: the coating must be fully dispersed before operation;
- Viscosity adjustment: the viscosity could be adjusted according to different spray methods. Dilute with clean water if the viscosity is over high;
- Coating filtration: filtrate the coating with screen (100mesh) before using.

## 3. Application

- The spraying environment should be dry, well-ventilated, no smoking and fire. We suggest using dedicated spray gun, elevated tank and curing oven;
- The air compressor should be degreased, dewatered and equipped with water oil separator before using;
- Roll the coating at 30rpm speed before using to make sure there is no sediment, and filter with 100 mesh screen;
- Adjust atomization and oil pump capacity of the spraying gun; make sure the unit is clean and flat;
- Preheat the substrate to 35°C and spray the primer. Dry it at temperature of 120°C~150°C for 10min-15min. Keep the thickness of primer within 15μm-22μm;
- Spray top coating after the primer is dry and cooling to room temperature, then spray the top. Dry the unit at the temperature of 100°C~150°C for 10min, and gradually increase the temperature to 280°C~300°C. Keep for 10 min. Keep the thickness of top coat within 12μm~20μm. The thickness of two coat tally should be between 30μm~40μm;
- The oven (or the tunnel drier) must be well ventilated; otherwise, it will lead to color change of coating.

## HOW TO USE

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