



JIAZHI® easy-cleaning functional resin

Model number

JIAZHI®JZ-9540

Specification

Composition	Silicone modified hydroxyl acrylic resin solution
Appearance	Slight yellowish to yellow clear liquid
Solvent	BAC/PMA
Content	50±3%(140°C 2h)
Density	0.98-1.02g/ml(25±1)°C
Viscosity	100-1000mPa·s (Rotating viscometer)(25±0.2)°C
Hydroxyl value	120±5 mg KOH/g (Theoretical value of solid resin)

Note: This data sheet is intended to give typical results, not standard. Subject to COA.

Application system

Solvent-based system

Properties

- Increase slip. Improve hydrophobicity and oleophobicity.
- Provide anti-marker wiping performance.
- Provide lotus effect.
- Compared with anti-graffiti additive, better easy-to-clean effect and alcohol-resistant wiping performance.
- Water contact angle > 100°

Storage stability

Store in a cool, dry place in the unopened original packaging for 36 months. Products that exceed the storage period can continue to be used after passing the inspection. It must be closed immediately after use.

Recommended formula

1. Suggestion for PU varnish formulation

	Material	Dosage%
Part A	JZ-9540	76
	PMA	22.74
	Dryer(1%)	1
	WE-D8920BR(leveling agent)	0.25
	WE-D980(defoamer)	0.01
	Total	100
Part B	N3390	18

1Note:

1. Usage recommendation for defoamer

Add WE-D980 with 0.01% to PU varnish and no affecting of compatibility.

Can increase the addition to 0.1% of WE-D980 to color paint.

2. NCO% of N3390=19.6, produced by Covestro, Germany.

3.The mixed part A and B should be used up within 5-7 hours in a sealed container. Otherwise, the mixed material will be gelled.

4.Suggest dry it at 110-130°C for 2-3min. for automotive protective film, ripening at 60-80°C more than 24h. Dry it at 80°C for 1h, or 150 °C for 5h for other industrial coatings. The advantages and disadvantages of fouling resistance and aging resistance depend on whether the coating is fully cross-linked; it is an effective method to put the surface treated film into the ripening box. It takes at least 24 hours during ripening, and the effect is better if it can reach more than 48 hours.

2. Suggestion for baking system formulation

Material	Dosage
JZ-9540	50
Butylated amino resin	10
Solvent	38.5
Adhesion promoter	1
Acid catalyst	0.5
Total	100

1. The amino resin used in this formulation is SANMU 582, which can be adjusted according to specific requirements.

2. Recommended baking temperature: 150 ° C for 30 minutes or 210 ° C for 90 seconds.

Package

25KG / 180KG

Application suggestion for paint protective film

item	TPH film base	TPU film base
fouling-resistance from dry wiping	a little residue	a little residue
fouling-resistance from alcohol wiping	a little slight residue	a little slight residue
hydrophobicity	water contact angle > 100°	water contact angle > 100°
flexibility	elongation > 60%	elongation > 50%
recovery	hot healing	hot healing
chemical resistance (Carburetor-resistance cleaner)	No changes in 30s	No loss of gloss in 30s
weather resistance	QUVB aging 1000h	QUVB aging 1000h

Note:

1. The test results in the table are based on the following conditions:

Baking time: 120 °C 3min

Curing conditions: 80 °C for 48H

Coating thickness: TPH substrate: 8-10μm TPU base material: 15-20μm

In view of the variability of substrate, film thickness, baking and curing conditions, the data provided in this table are for reference only.

2. The model of oily pen for stain resistance test is Chenguang MG-2110. The test method is to wipe it after it is written and placed at room temperature for 3min.

3. Chemical resistance test: the brand of carburetor cleaning agent is BOTNY.