

VIC(Z)-SERIES

VIC(Z)-series is a family of two-part reaction inks that dry more quickly than other two-part reaction inks for higher work efficiency, and ideal for printing on various materials.

Type

Quick-drying, two-part reaction ink using an isocyanate hardener.

Usage

Treated PP, PE, coats(especially urethane coats),ABS acrylic, PVT, etc.

Feature

Semi-gloss finish

Outstanding moisture resistance, solvent resistance

Diluent

Standard T-926

Slow Drying T-927

Retarder T-980

Mixing ratio

VIC(Z) ink : VIC-Hardener=100 : 10 (pot life is approximate 6~8 hours after mixing with Hardener)

Washing solvent

T-15

Screen mesh

Tetron / Nylon - 200~300 is recommended

Drying time

: Drying by set to touch

*Air-drying at room temperature = 25°C x 7days

* 25°C x 30 minutes for set to touch

: Hard drying

*Forced drying = 80°C x 20min. + Room temperature x 48hr.

* 60°C x 5 minutes for set to touch

*** Recommend drying at 120°C x 20 minutes when printing on metals in order to improve adhesion**

Others

The hardener for the VIC(Z)-series is extremely sensitive to moisture and should be used as soon as it is unpacked.

Adding 0.5~2% of CARE 6 to the ink may help to improve the foaming or pin hole printing problems.

Use of Gold Metallic Powder is not recommended to mix with VIC(Z) inks as it will cause chemical reaction leading to the gelation.

VIC(Z)-series ink film test result

Item	Condition	Result	
Hardness	Pencil hardness 45° x 200g	H	
Adhesion	Peeling test at 1mm pitch crosscut test using cellophane tape	Treated PP	100/100
		Treated PE	100/100
		Melamin coating	100/100
		Urethane coating	100/100
		ABS	100/100
		Acrylic	100/100
		PVC	100/100
		Tin	100/100
Water resistance	Soaked in water for 168 hours (7days) → Peeling test at 1mm pitch crosscut test using cellophane tape	Not affected	
Moisture resistance	60°C x 90% RH x 168 hours (7days) → Peeling test at 1mm pitch crosscut test using cellophane tape	Not affected	
Alcohol resistance	Rubbed 100 times with methanol at 500g	Not affected	
Xylene resistance	Rubbed 100 times with Xylene at 500g	Not affected	
Gasoline resistance	Rubbed 100 times with gasoline at 500g load	Not affected	
MEK friction resistance	Rubbed 20 times with MEK at 500g load	Not affected	
Weather resistance	600 hours of Sunshine Weather-O-meter	Not affected	

Test condition

Ink : VIC(Z)-120 White, VIC(Z)-710 Black

Material : Heat treatment PP

Drying : 80°C x 20min. + 7 days