

SG740-series

SG740-series is a family of two-part reaction inks that dry more quickly than other two-part reaction inks for higher work efficiency. Their outstanding adhesion power, superb moisture and solvent resistance make them ideal for printing on various materials.

Ink type

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

Usage

Treated PP, PE, treated POM (polyacetal) coats (especially urethane coats),
ABS acrylic, PVC, nylon cloth and other materials.

Finish

Generally, semigloss finish and outstanding resistance with solvents although the quality varies with the color.

Diluent

Standard solvent	T-926
Slow dry solvent	T-927
Retarder	T-980

Mixing ratio

Main agent : Hardener = 10 : 1 (pot life is approximate 6 hours after mixing with Hardener)

Washing solvent

T-15

Screen mesh

T-200~300 is recommended

Drying time

:Drying by set to touch

*Air-drying at room temperature = 25°C x 4days

* 25°C x 40 minutes for set to touch

: Hard drying

*Forced drying = 80°C x 30min. + Room temperature x 24 hours

* 60°C x 5 minutes for set to touch

: Heat treatment at 120°C for 20minutes is recommended for best results on metals.

Others

The hardener for the SG740-series is extremely sensitive to moisture and should be used as soon as it is unpacked. Addition (1~2%) of CARE-20 or CARE-50 to the ink may help to improve the foaming or pin hole printing problems.

The printed film is slightly thin as compared with VIC-series.

Use of Gold Metallic Powder is not recommended to be mixed with SG740 inks as it will cause chemical reaction leading to the gelation. Silver Metallic powder has to be mixed with colored inks such as SG740 Yellow, Red, Orange, etc to get Gold Metallic color.

SG740-series ink film test result

Item	Condition	Result	
Hardness	Pencil hardness 45° x 200g	H	
Adhesion	Treated PP	100/100	
	Treated PE	100/100	
	Melamin coating	100/100	
	Urethane coating	100/100	
	ABS	Peeling test at 1mm pitch crosscut test using cellophane tape	100/100
	Acrylic		100/100
	PVC		100/100
	Tin		100/100
	Nylon cloth	Peeling test by rubbing in hands	100/100
Water resistance	Soaked in water for 1 week	Not affected	
Moisture resistance	60°C x 90% RH x 200 hours	Not affected	
Alcohol resistance	Rubbed 100 times with methanol at 500g	Not affected	
Gasoline resistance	Rubbed 100 times with gasoline at 500g load	Not affected	
Xylene resistance	Rubbed 50 times with Xylene at 500g	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 : SG740-120 White/710 Black

Material : Treated PP

Drying : 80°C x 30min. + Room temperature 1 week