



# OS Water Based Surface Print Ink

## 【Main components】

- ❖ Resin: Water based acrylic resin
- ❖ Solvent: Deionised water/ alcohol
- ❖ Additive: Synthetic wax
- ❖ Pigment: Organic/ Inorganic Pigment

## 【Application】

- ❖ Printing substrate: Surface tension  $\geq 38$  dyne shrink PE
- ❖ Package type: Light packages for non-lamination purpose; drinking water and soft drink package
- ❖ Printing speed: 30~150 m/min

## 【Product feature】

- ❖ Good stability, no separation, colour fade and gelation after storage and use
- ❖ Good tolerance to different dilution ratio
- ❖ Good solvent release, low odor and low solvent residue
- ❖ Balance performance on gloss, smoothness, anti-block, scratch resistance, shallow cell transfer
- ❖ Good heat shrink performance and water rub resistance

## 【Dilution】

solvent	Drying Speed		
	fast	medium	slow
DI water	30	50	100
Ethanol	70	50	-



### **【Storage & Safety】**

- ❖ Store and use between 0-40°C
- ❖ Avoid contact with skin and eyes during operation, for more details please refer to “Ink health and safety instructions”

### **【Operation】**

- ❖ Add solvent with stirring to avoid rapid localised dilution which might cause pigment agglomeration
- ❖ Using ink dispenser can avoid ink from forming peel, maintain stable colour hue
- ❖ Ink stability can be achieved by addition of small amount of inks over many times
- ❖ Check particle size of old ink before use, use 200T filter net to filter old ink and blend 10-30% with new ink

### **【Precaution】**

- ❖ Ink dilution depends on printing speed. Excess dilution will cause thin dried ink film which will decrease strength and rub resistance. Use varnish to decrease concentration
- ❖ Ink will set at -10 °C, use hot water or steam (around 20 °C) to restore flowability, avoid naked flame
- ❖ Above data are obtained by our company, result might vary with different substrate and process, please confirm before use

### **【Disclaimer】**

This specification is in accordance with the actual production and test results, whether the product could meet your process requirements depends on application conditions and printed material. We recommend the users to assess if the product can meet all their requirements before production. Since we cannot predict or control your printing condition, the product performance cannot be guaranteed all sales are subjected to the standard terms and conditions of the sales control division.