

The W200 Series Water-Base Paper Ink is specifically formulated to meet the demands of today's Narrow Web Label converters. The W200 Series Water-Base Paper Ink features:

- ❖ High Speed Printing
- ❖ Easy to use
- ❖ High Color Strength
- ❖ Compatible with Water-base and UV Coatings
- ❖ Adheres to some Film Substrates
- ❖ Excellent Press Stability
- ❖ Available in 3 bcm, 4 bcm, and 5 bcm
- ❖ Process Colors available for 1.0 bcm to 2.0 bcm

## SUBSTRATES

Coated / Uncoated Paper and Board. Works well on some film substrates.

**Note:** As with all film substrates, lots may vary and testing is recommended before use.

## USER INFORMATION

**Anilox Volumes** – Recommended 2.5 bcm - 5.0 bcm

**Viscosity** – On average 14-25 sec., #3 Zahn @ 77°F

**pH Range** – 9.0 – 10.0

**Printing** – The W200 Paper Series ink exhibit outstanding pressroom performance and stability. These inks are high strength at low viscosity. Listed below are other tips to consider during the printing process:

1. **Viscosity too high** – An addition of 2 – 3 ounces at a time of CARE73 Stabilizer will reduce the viscosity without reducing color strength too quickly.
2. **Increase Dry Rate** – A mixture of Isopropyl Alcohol/Water (50%/50%) will help increase the dry rate. Care should be used in premixing the Isopropyl Alcohol and Water first to avoid shocking the ink.
3. **Decrease Dry Rate** – The addition of RE198 Slow Reducer in increments of 1% up to 5% is used to slow down dry rate.
4. **Color too Strong**-Additions in the amounts of 2%-5% at a time of Transparent White can be used to reduce color strength without reducing viscosity. Record all adds to inks along with the amounts.

5. **Ink foaming**-The addition of CARE75 Defoamer in small amounts to the ink pan will help reduce foaming. (Add a half a capful to end of the journals or 1 capful per gallon to the pump container). Too much CARE75 can cause pinholes in the print.
6. **Increase pH**-Add 1% of CARE74 PH Adjuster to the ink pan or pump container. The pH of the inks should be maintained between 9.0-10.0. Let adds mix for a few minutes to ensure they have been mixed thoroughly into the ink. If inks have been allowed to set in the pan or pump for extended time, viscosity and pH should be checked and adjusted if necessary.
7. Clean anilox rolls on a regular basis. Use a brass brush for Chrome rolls and a stainless brush for ceramic rolls.

## GENERAL INFORMATION

### STORAGE

Always store ink in a tightly closed container. Ink storage of 6 months should not affect the print quality. Longer periods of storage, simply open the container and add 1-2 ounces of Paper Print Aid and stir or shake well.

**Adhesion Testing**- Use 610 / 810 Tape

### INK HANDLING

Safety glasses and gloves are suggested in areas where product may be splashed. If product does come in contact with skin, wipe ink off with a clean, dry cloth (do not use solvent or reducer). Wash the affected area with soap and water. Consult the W200 Series Material Safety Data Sheet for further instructions and warnings

## PRODUCT OFFERING

**Standard Printing Colors** – The W200 Paper Series is available in 3 ranges of standard printing colors when using a 3bcm, 4bcm and 5bcm anilox rollers. There is also a set of (FR) colors.

**4 Color Process**- The W200 Series 4 color process inks are designed to print with anilox rollers having 1-2 bcm. W200 is also available in fade resistant (FR) colors.

**Fade Resistance**- The W200 Series Ink offers a line of Fade Resistant colors. These colors are designated with (FR) in their descriptions.

### ADDITIVES

**CARE75 Defoamer**- Designed to be poured directly into an ink to stop foaming. It is recommended to add ½%-1% into the ink when needed. Do not add more than 1% or pinholes in the print may occur.

**CARE74 PH Adjuster**-Designed to replace the Amines that are lost due to evaporation on long press runs. PH Adjuster is compatible with most Water-base ink, which has a PH range of 9.0-10.0. PH Adjuster should be used on long press runs where ink had been maintained with water.

**CARE73 Stabilizer**-Designed to reduce the viscosity, replace the Amines, and water lost due to evaporation.

**CARE76 Paper Print Aid**- Formulated for Paper Ink System to raise the PH and slow down drying without lowering the viscosity of the ink. Paper Print Aid will aid in cleaner print, less build up on the plates by increasing the re-wetability of an ink.

**CARE90 Viscosity Increaser** - Designed to increase the viscosity of the ink with affecting color strength. It is recommended to add 0.25%-0.50% into the ink to raise the viscosity 5-10 seconds in a #3Zahn cup.

### ADDITIVE PERCENTAGE

	1 Qt. = 32 oz.	½ Gal. = 64 oz.	1 Gal. = 128 oz.	5 Gal.= 640 oz.
1%	.32 oz.	.64 oz.	1.28 oz.	6.40 oz.
2%	.64 oz.	1.28 oz.	2.56 oz.	12.80 oz.
3%	.96 oz.	1.92 oz.	3.84 oz.	19.20 oz.
4%	1.28 oz.	2.56 oz.	5.12 oz.	25.60 oz.
5%	1.60 oz.	3.20 oz.	6.40 oz.	32.00 oz.

The following products are available in 3bcm, 4bcm and 5bcm. Part numbers for the 3bcm and 4 bcm are listed below. Part numbers for the 5 bcm are not shown but are available upon request.

Standard Colors	3bcm/PN	4bcm/PN
Opaque White	W200308	W200408
Black	W200309	W200409
Transparent White	W200010	W200010
Yellow	W200311	W200411
Orange	W200312	W200412
Warm Red	W200313	W200413
Rubine Red	W200314	W200414
Rhodamine Red	W200315	W200415
Purple	W200316	W200416
Violet	W200317	W200417
Reflex Blue	W200318	W200418
FR Process Blue (BW8)	W200319	W200419
FR Green (BW8)	W200320	W200420

Fade Resistant Colors	3bcm/PN	4bcm/PN
FR Yellow (BW6)	W200321	W200421
FR Orange (BW6)	W200322	W200422
FR Warm Red (BW6)	W200323	W200423
FR Rubine Red (BW6)	W200324	W200424
FR Rhodamine Red (BW8)	W200325	W200425
FR Purple (BW8)	W200326	W200426
FR Violet (BW8)	W200327	W200427
FR Reflex Blue (BW8)	W200328	W200428
Process Colors	Part No's	
Process Yellow	W200041	
Process Magenta	W200042	
FR Process Yellow (BW6)	W200051	
FR Process Magenta (BW6)	W200052	
FR Process Cyan (BW8)	W200053	
FR Process Black (BW8)	W200054	
Process Extender	W200090	
Additives		
Stabilizer	CARE73	
PH Adjuster	CARE74	
Defoamer	CARE75	
Print Aid Paper	CARE76	
Reducers		
Slow Reducer	RE198	

*Nazdar® stands behind the quality of this product. Nazdar® cannot, however, guarantee the finished results because Nazdar® exercises no control over individual operating conditions and production procedures. While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. Users are also responsible for testing to determine that our product will perform as expected during the printed item's entire life-cycle from printing, post-print processing, and shipment to end-use. This product has been specially formulated for flexo printing, and it has not been tested for application by any other method. Any liability associated with the use of this product is limited to the value of the product purchased from Nazdar®.*

Based on information from our raw material suppliers, these products are formulated to contain less than 0.06% lead. If exact heavy metal content is required, independent lab analysis is recommended.

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