

## TECHNICAL BULLETIN

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# ***i*-AQUAEASE**

## WATER BASED FLEXOGRAPHIC PRINTING INKS FOR THE NARROW WEB PRINTING INDUSTRY

*i*-AQUAEASE is a water based surface printing ink series formulated for printing high quality tags and labels. This high performance ink, designed for the narrow web printing of a wide variety of paper and film substrates, exhibits excellent stability and printability on a wide variety of presses. When used with an overprint varnish, *i*-AQUAEASE provides high quality results with excellent resistance properties.

### Characteristics

- High color strength
- Excellent gloss
- Excellent press stability
- Excellent printability
- Stable metallic colours

### Substrates

- Coated and uncoated paper.
- A wide variety of film substrates (prior testing is required -- adhesion to film may be enhanced through the application of PWPE09374 Special Primer).

### Typical Applications

- *i*-AQUAEASE is conceived for the narrow web flexographic printing of tags and labels.
- *i*-AQUAEASE is formulated for optimal printing of both solid and screen images.
- *i*-AQUAEASE is bases may be used to match a large variety of metallic colours.

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## Base Colours

• <i>i-AQUAEASE</i> Extender	FWNE04900
• <i>i-AQUAEASE</i> White Monobase	FWNW04901
• <i>i-AQUAEASE</i> Yellow Monobase	FWNY04902
• <i>i-AQUAEASE</i> LF Yellow Monobase	FWNY04903
• <i>i-AQUAEASE</i> LF Orange Monobase	FWNY04904
• <i>i-AQUAEASE</i> Warm Red Monobase	FWNR04905
• <i>i-AQUAEASE</i> LF Y/S Monobase	FWNR04906
• <i>i-AQUAEASE</i> Rubine Red Monobase	FWNR04907
• <i>i-AQUAEASE</i> LF B/S Red Monobase	FWNR04908
• <i>i-AQUAEASE</i> Rhodamine Red Monobase	FWNR04909
• <i>i-AQUAEASE</i> LF Pink Monobase	FWNR04910
• <i>i-AQUAEASE</i> Violet Monobase	FWNP04911
• <i>i-AQUAEASE</i> LF Violet Monobase	FWNP04912
• <i>i-AQUAEASE</i> Blue Monobase	FWNB04913
• <i>i-AQUAEASE</i> Green Monobase	FWNG04914
• <i>i-AQUAEASE</i> Black Monobase	FWNK04915
• <i>i-AQUAEASE</i> Silver	PWNNM07401

## PMS Base Colours

• <i>i-AQUAEASE</i> PMS Yellow C	FWNY06844
• <i>i-AQUAEASE</i> PMS 021 Orange C	FWNY06845
• <i>i-AQUAEASE</i> PMS Warm Red C	FWNR06846
• <i>i-AQUAEASE</i> PMS Rubine Red C	FWNR06847
• <i>i-AQUAEASE</i> PMS Rhodamine Red C	FWNR06848
• <i>i-AQUAEASE</i> PMS Violet C	FWNP06849
• <i>i-AQUAEASE</i> PMS Purple C	FWNP06850
• <i>i-AQUAEASE</i> PMS Process Blue C	FWNB06851
• <i>i-AQUAEASE</i> PMS Green C	FWNG06852
• <i>i-AQUAEASE</i> PMS Reflex Blue C	FWNB06853
• <i>i-AQUAEASE</i> PMS Black C	FWNK06854

## Process Colours

• <i>i-AQUAEASE</i> Process Extender	FWNE04867
• <i>i-AQUAEASE</i> Process Yellow (1.89 bcm)	FWNY04833
• <i>i-AQUAEASE</i> LF Process Yellow (1.89 bcm)	FWNY04869
• <i>i-AQUAEASE</i> Process Magenta (1.89 bcm)	FWNR04834
• <i>i-AQUAEASE</i> LF Process Magenta (1.89 bcm)	FWNR04870
• <i>i-AQUAEASE</i> Process Cyan (1.89 bcm)	FWNB04871
• <i>i-AQUAEASE</i> Process Black (1.89 bcm)	FWNK04872

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## Technical Data

<b>Viscosity</b>	35 – 45 sec. Zahn Signature 90 # 2 cup (press ready); if reduction in viscosity is required, use <i>i-Aquaease Reducer</i> FWNE06347
<b>pH</b>	8.5 to 9.0; if necessary, pH may be maintained during a run with the addition of pH Control Additive OWAE02474
<b>Anilox</b>	Strong solid colours may be printed using volumes of 5.6 bcm. Some colours may be run with lower volume, depending on the pigment used. Lightfast colours may require more volume, depending on the colour, due to the nature of the pigments used.
<b>Plates</b>	Rubber or photopolymer
<b>Press Speed</b>	250 fpm for in-line printing on paper
<b>Defoamer</b>	PWAE00127 WB Defoamer. Apply sparingly over the ink reservoir using a spray bottle.
<b>Clean up</b>	Magic Clean Extra Conc MGC-1 (OWSE02667) Blend 50/50 with warm water
<b>Shelf Life/ Storage</b>	Approximately six (6) months depending on colour, storage conditions, and use. Store at room temperature. Do not allow to freeze. Stir well before use.

**CAUTION \* CAUTION \* CAUTION \* CAUTION \* CAUTION \* CAUTION \* CAUTION \* CAUTION**

1. Excessive additions of defoamer PWAE00127 may cause surface defects. Add only as directed.
2. Mixed colours are typically not permanent. Colours will be matched for optimal lightfastness upon request. *i-AQUAEASE* is not recommended for outdoor applications.
3. *i-AQUAEASE* is designed to be used with an overprint varnish. If no OPV is used, it is recommended that approximately 1% of WB Slip Additive PWAE01220 be added to the ink to optimize scratch and rub resistance. NOTE THAT THE PRINTED FILM WILL NOT ACCEPT ANY OPV AFTER PWAE01220 HAS BEEN ADDED. Excessive additions of PWAE01220 may cause print defects or increase the viscosity of the ink.
4. Excessive additions of pH Control Additive OWAE02474 may retard drying and inhibit moisture resistance. Use only as directed.

Pemla cannot anticipate all conditions under which this information and our products may be used. All printing applications should be tested before using on a press. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Please contact Pemla technical personnel for more information.

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