

SolarAqua™ AV II

Technical Data Sheet

SolarAqua AV II waterbased flexo inks were developed especially for pressure-sensitive label applications and the narrow web market. These high-gloss, high-strength inks provide outstanding printability with minimal press-side maintenance.

Typical Characteristics and Features

SolarAqua AV II inks are formulated to have the following properties:

- Single ink series for both paper and film applications
- High density and high definition printing with fewer wash-ups over long runs
- Press stability and rewettability over long runs
- Suitable for presses with or without doctor blade
- Easy wash-ups

Technical Information and ink handling

Viscosity

15-25 seconds using a #3 Zahn cup / 77°F (25°C)

pH

Range is 9.5-10.0

Anilox

Process colors: 360-1000 lpi / 1.8-4.0 bcm
Medium graphics: 250-550 lpi / 3.5-7.0 bcm
Line colors and Opaque whites: 160-360 lpi / 5.0-8.0 bcm

Available colors

SolarAqua AV II are available in the following colors:

- Process colors
- Blending colors
- Lightfast (LF) process & blending colors
- Special colors available on request

Additives

SolarAqua AV II recommended additives:

- Satisfactory drying speed: Reduce with water
- To slow down drying: Add a maximum of 5% NWWX-1195
- To speed up drying: Add a maximum of 5% isopropyl alcohol
- To raise pH: Add NWWX-1069 Ink Freshener

Substrate recommendations

SolarAqua AV II can be used on the following:

- Paper and Paperboard
- Coated foil
- Treated or coated polyethylene, polypropylene, and polyester films
- A minimum film surface energy of 38-42 dynes / cm is recommended for optimal adhesion
- Substrates should be pre-tested to ensure ink performance

Web temperature

100°F - 140°F (37.8°C - 60°C)

Ink film drying

SolarAqua AV II inks can be dried with infrared or hot air dryers.

Storage Considerations

- Premix material prior to use or before making any corrections
- Check viscosity before use; add water to adjust, if necessary
- Do not allow ink to freeze; keep container tightly closed

Safety, Health and Environment

SolarAqua AV II is to be used in accordance with normal standards of industrial hygiene and good manufacturing practice. Please refer to the Safety Data Sheet for specific information. Safety Data Sheets will be supplied.

Printing inks, coatings and printing residues should be disposed of in accordance with local and national regulations.



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Description	EMG Number	SAP Code 1-GAL Jug	SAP Code 5-GAL Pail	Blue Wool
Process Inks				
SolarAqua AV II Process Black	NWWB-1481	91663389	91669004	8
SolarAqua AV II Process Cyan	NWWB-1006	91085609	91668102	8
SolarAqua AV II Process Magenta	NWWB-1007	91085609	91668101	5
SolarAqua AV II Process Yellow	NWWB-1008	91085671	91667999	7
Blending Inks				
SolarAqua AV II Extender	TWOFW0832750	90010127	90010128	N/A
SolarAqua AV II Reducer/Retarder	TWLFW0839028	90009803	90974309	N/A
SolarAqua AV II Opaque White	ESC11141F/W	90066870	90066871	8
SolarAqua AV II LF Yellow	TWOFW2832751	90010135	90010136	7
SolarAqua AV II NLF Yellow	TWSFW2834829	90983199	90983198	5
SolarAqua AV II LF Rubine Red	TWOFW4832754	90010152	90010151	5
SolarAqua AV II NLF Rubine Red	TWSFW4834830	90983220	90983179	3
SolarAqua AV II Process Blue	TWOFW5832758	90010168	90010167	8
SolarAqua AV II Warm Red	TWOFW4832753	90010150	90010149	5
SolarAqua AV II LF Purple	TWOFW4832757	90010157	90010156	7
SolarAqua AV II NLF Purple	TWPFW4830015	90010444	N/A	3
SolarAqua AV II LF Rhodamine Red	TWSFW4834838	90985209	N/A	7
SolarAqua AV II LF Reflex Blue	TWOFW5832759	90010170	90010169	8
SolarAqua AV II LF Violet	TWOFW6832760	90010174	90010175	8
SolarAqua AV II NLF Violet	TWSFW6834860	90990499	90990643	3
SolarAqua AV II Green	TWOFW7832761	90010177	90010178	8
SolarAqua AV II Black	TWJFW9835902	90009683	90806498	8

The Blue Wool Scale rating indicates the relative lightfastness of an ink. It is measured on a scale from 0 to 8, with 0 having poor lightfastness and 8 having excellent lightfastness. The numbers here reflect the fade resistance of a full-strength ink. Tints or blends of these inks may exhibit lower lightfastness.

The information contained in this technical data sheet is only a recommendation and may need to be altered to suit the conditions and efficiency of the equipment employed. Our products are not designed for use in conjunction with those of any other ink maker or similar supplier unless agreed to in writing.



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