

AQUARIUS™

WATERBASED



ZODIAC™ ECOCENTRIC INKS

PRODUCT INFORMATION BULLETIN

Aquarius™ High Solids Range

RECOMMENDED PARAMETERS



Fabric Types

100% Cotton. Synthetic fabrics and blends can also be used but may require Aquarius™ Migration Block to prevent dye migration.



Mesh

Counts: 86- 230T/in (34 -90T/cm)
Tension: 18-35n/cm³



Squeegee

Medium: 60-90-60
Profile: sharp, square
Stroke: x2 stroke, medium speed
Angle: 10-15%



Stencil

Water Resistant Emulsion
Off Contact: 1/16" (2mm)
Emulsion Over Mesh: 15-20%



Flash & Cure

Flash: 180°-200°F (80°-94°C)
Cure Polyester: 60 seconds at 290°F(144°C)
Cure Cotton: 60 seconds at 330°F(166°C)



Pigment Loading

Aquarius™ Water Based Pigments
Maximum 12%



Aquarius Additives

Aquarius™ Softener 1-5%
Aquarius™ Thickener 0.1-1%
Aquarius™ Retarder Gel 1-5%



Storage

Store in sealed containers
12 months from manufacture
>40°F (5°C) <77°F(25°C)



Clean Up

Water & mild detergent



Health & Safety

MSDS: www.polyone.com
or contact your local CSR

Aquarius™ High Solids range consists of a high opacity white, a clear base and a ready to use Black. Designed to provide maximum opacity and color brightness with a soft, flexible hand feel. When used in combination with Aquarius™ Water Based Pigments.

HIGHLIGHTS

- High Opacity
- Smooth, matte surface with no tack
- Excellent screen open time
- Excellent wash durability & crock
- Fast flash performance

PRINTING TIPS

- White can be used as stand alone white or as underbase or highlight white when printing on dark fabrics.
- Colors should be made in accordance with Aquarius™ IMS Pantone® mixing system with a maximum of 12% pigment loading to ensure crock performance is maintained.
- Use 86-230T/34-90T mesh screens for best performance and opacity.
- Pallets should be pre-heated to 140°F/60°C.
- Print with 1/16" or 2mm off contact.
- Print two strokes to ensure the mesh is clear and you have a good ink deposit.
- The Aquarius™ High Solids range has excellent re-wetting properties after stoppages. Cleaning the stencil area when stopped will prevent screen blockages.
- Use Aquarius™ Migration Block as an underbase when printing on polyester/nylon fabrics and their blends to avoid dye migration.
- Cotton prints should be cured at 330°F/166°C for 60 seconds and polyester at 290°F/144°C for 60 seconds. Check the cure temp at the ink surface.
- Test all prints for color fastness and print durability before starting the production run.

COMPLIANCE

- Water based, non PVC, non phthalate
- Visit ZodiacInks.com/Aquarius for more information

PRECAUTIONS

- The information above is given in good faith and does not release you from testing inks and fabrics to confirm suitability of substrate and application process to meet your customer standards and specifications