



## TECHNICAL DATA SHEET

Aqua Art Series Screen Ink is a water-based ink that produces a gloss or matt ink finish. Offers good screen stability. Is solvent free and low odour the number one screenprinting ink system. Excellent light fast colours.

Available in 15 Standard Colours / Binder – Pigment System EMS / Metallics / Fluorescents / Lustres / 4 Colour Range.

**SUBSTRATES** Paper , Display Board , Corrugated Board , Fine Art Papers.  
(Weights more than 100gsm).

## USER INFORMATION

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. See full disclaimer at the end of the document.

**MESH** 77-100 Polyester mesh for most applications.

**STENCIL** 6000 Tec WR Screen Emulsion.

**SQUEEGEE** TEC SG950 70/75 Green Squeegee.

**COVERAGE** 30 square meters per kg depending on mesh / paper.

**PRINTING** Aqua Art ink may be thinned to achieve proper ink flow (see Additives section).  
Thoroughly mix the ink prior to printing.  
Maintain ink temperature at 65 - 90°F (18 - 32°C) for optimum print performance.  
Lower temperatures increase the ink viscosity, impairing flow.  
Elevated temperatures lower the ink viscosity, reducing print definition, film thickness and opacity.

**DRYING** Aqua Art ink dries by evaporation in 20-30 minutes depending on temperature and humidity.  
Jet dry at 66 - 77°C for approximately 30-45 seconds using maximum air flow through the oven.  
Adequate cooling may be necessary to avoid blocking problems when stacked.

**CLEAR / VARNISHES** Overprint Clear: Use AAG27 Overprint Clear to reduce the density of colors or as an overprint.

# AQUA ART SCREEN INK

## ADDITIVES

All additives should be thoroughly mixed into the ink before each use. Prior to production, test any additive adjustment to the ink.

Thinner: Use WATER to reduce the viscosity of these inks.  
Add up to 5 % by weight.

Retarder: AA008 Retarder to slow drying times. Add up to 3-5 % by weight.

Matt Additive: Use SP4271 Matt Additive to reduce gloss levels.  
Add up to 15% by weight to get flat matt.

## CLEAN UP

Screen Wash (Prior to Reclaim): Use AA007 Screen Wash.

## SMP

Screen Making Products (See Technical Data Sheet).

## STORAGE

Store tightly covered at a temperature between 65° - 90°F (18° - 32°C).  
Ink taken from the press should not be returned to the original container;  
store separately to avoid contaminating unused ink.

## GENERAL INFORMATION

### INK HANDLING

Wear gloves to prevent direct skin contact. Safety glasses are suggested in areas where ink may be splashed. If ink does come in contact with skin, wipe ink off with a clean cloth (do not use solvent). Wash the affected area with soap and water.

Consult the Aqua Art Material Safety Data Sheet for further instructions.

### ADHESION TESTING

Touch of ink surface – the ink surface will be dry.

Thumb twist – the ink surface will not mar or smudge.

Scratch surface – the ink surface will resist scratching. Coated paper scratches easily, so use magnification to determine if scratches are ink only or ink and top layer of substrate.

## PRODUCT OFFERING

### STANDARD PRINTING COLORS

Standard Printing Colors have excellent colour brightness /opacity.

### PIGMENTS

Pigments are highly concentrated, clean colors. These pigments can be added to binder to make finished ink or used in colour matches.

### PACKAGING / AVAILABILITY

All items listed below are inventoried items and available in 1kg / 5kg containers.

# AQUA ART SCREEN INK

**AAG = Gloss Finish / AAM = Matt Finish**

<b>Code Number</b>	<b>Screen Ink Colour</b>	<b>Code Number</b>	<b>Pigment Colour</b>
AA27	Binder	AA152	Black
AA361	Yellow	AA158	White
AA12	Medium Yellow	AA159	Yellow
AA360	Orange	AA153	Orange
AA362	Warm Red	AA156	Scarlet Red
AA19	Fire Red	AA160	Rhodamine
AA364	Rhodamine	AA154	Cyan Blue
AA366	Violet	AA155	Violet
AA367	Reflex Blue	AA161	Rubine
AA369	Green	AA157	Green
AA24	Black		
			<b>4 Colour Ink</b>
AA58	White	AAHTB	Process Blue
AA75	Opaque White	AAHTY	Process Yellow
AA368	Process Blue	AAHTR	Process Magenta
AA363	Rubine Red	AAHTBK	Process Black
AA365	Purple	AAHTEX	Process Base
AAF80	Flr Yellow	AAF81	Flr Orange
AAF82	Flr Red	AAF83	Flr Pink
AAF84	Flr Green	AAF84	Flr Blue
AA862	R M Silver	AA861	R M Gold
AAGID	Glow in Dark Green		Glitter Binder

## COLOUR

We can offer full colour matching service. Delivery 3 days from order.  
We would need to know the mesh/substrate+colour/finish required gloss or matt.  
We can match to Pantone C + U / RAL + supplied customer's proofs.

<b>Code Number</b>	<b>Additives/Reducers</b>	<b>Item Number</b>	<b>Cleaners</b>
SP4271	Matt Additive 15% = flat matt	AA0087	Concentrate Screen Wash 1 to 5 Mix

**AA008 Retarder 3-5% Addition**

Screenotec stands behind the quality of this product. Screenotec cannot, however, guarantee the finished results because Screenotec 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 screen 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 Screenotec.

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# AQUA ART SCREENPRINT INK



## MATERIAL SAFETY DATA SHEET

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<b>MANUFACTURER</b>	Screenotec Print Essentials Ltd
<b>PRODUCT NUMBER</b>	AA
<b>TRADE NAME</b>	Aqua Art
<b>PRINTING DATE</b>	08/02/2017

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### 01. IDENTIFICATION OF SUBSTANCE, PREPARATION & COMPANY

**TRADE NAME** Aqua Art

**MANUFACTURER** Screenotec Print Essentials Ltd  
378 Shelton New Road  
Basford  
Stoke On Trent  
ST4 6EW UK  
TEL: 01782 635 888  
FAX: 01782 639 222  
EMAIL: sales@screenotecprintessentials.com

**EMERGENCY INFORMATION** Telephone: + 44 (0) 1782 635 888

### 02. COMPOSITION / INFORMATION ON COMPONENT

#### CHEMICAL CHARACTERISATION

Water Based Acrylic Liquid

#### HAZARDOUS COMPONENTS

Ammonium Hydroxide

Concentration: 0.01% - 0.5% CAS number: 1336-21-6

### 03. HAZARDOUS IDENTIFICATION

#### HAZARDOUS DESIGNATION

Minor Irritant

#### PARTICULAR INFORMATION PERTAINING TO SPECIFIC RISK FOR HUMAN & ENVIRONMENT

Not considered Hazardous

## **04. FIRST AID MEASURES**

### **GENERAL**

Remove contaminated clothing. Wash affected areas with soap & water.  
Launder contaminated clothing before reuse.  
Seek medical attention if irritation occurs.

### **INHALATION**

Remove from exposure. If breathing is difficult. Seek medical attention.

### **SKIN CONTACT**

Wash affected areas with soapy water.

### **EYE CONTACT**

Flush with plenty of water (10 to 15 minutes). Use saline solution if available.

### **INGESTION**

Dilute with water & induce vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Give oxygen if breathing is difficult.  
Seek medical attention if a large amount has been ingested.

## **05. FIRE FIGHTING MEASURES**

### **EXTINGUISHER MEDIA SUITABLE**

Not flammable

### **EXTINGUISHER MEDIA NOT SUITABLE**

Not flammable

### **SPECIAL RISK POSED BY THE SUBSTANCE OR BY THE ACTUAL PREPARATION, IT'S COMBUSTION PRODUCTS OR GASES DISCHARGED**

Not Flammable

### **PROTECTIVE EQUIPMENT**

Not Flammable

## **06. ACCIDENTAL RELEASE MEASURES**

### **PERSONAL PRECAUTIONS**

Provide good ventilation. Refer to protective measures listed in 7 and 8.

### **ENVIRONMENTAL PRECAUTIONS**

If the product contaminates lakes, rivers or sewers, inform appropriate authorities in accordance with local regulations.

### **METHODS FOR CLEANING UP**

Remove by liquid absorbing material and process according to waste regulations.  
Clean preferably with water, flush to sewer only if local regulations allow.

## 07. HANDLING AND STORAGE

### INFORMATION

Avoid contact with the skin or eyes. When using do not eat or drink.  
Comply with the health and safety at work laws.

### INFORMATION ABOUT PROTECTION AGAINST EXPLOSION OR FIRE

Not Flammable.

### REQUIREMENTS TO BE MET BY STORE ROOMS AND CONTAINERS

Recommended storage temperature: 5 – 20°C. Protect from freezing  
Keep containers closed when not in use.

### INFORMATION ABOUT SEPARATION OF INCOMPATIBLE PRODUCTS

None.

### FURTHER INFORMATION ABOUT STORAGE CONDITIONS

None.

## 08. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### ADDITIONAL INFORMATION ABOUT ENGINEERING MEASURES

Provide adequate ventilation.

### COMPONENTS WITH CRITICAL VALUES THAT REQUIRE MONITORING AT THE WORKPLACE (EXPOSURE LIMITS)

None.

### PERSONAL PROTECTION EQUIPMENT

Respiratory equipment :-	No extra breathing protection equipment is required.
Skin protection :-	Use protective gloves.
Eye protection :-	Use safety glasses.
Body protection :-	None required.

## 09. PHYSICAL AND CHEMICAL PROPERTIES

### IMAGE

Form :-	Liquid
Colour :-	Various
Odour :-	Characteristic (mild)

### RELEVANT SAFETY DATA

None

### ADDITIONAL INFORMATION

None

## 10. STABILITY AND REACTIVITY

### CONDITIONS TO AVOID

Stable under recommended storage and handling conditions (see section 7).

## **MATERIALS TO AVOID**

None.

## **DANGEROUS DECOMPOSITION PRODUCTS**

Fire may create vapours/gases of CO<sub>2</sub>, CO, NO<sub>x</sub>.

## **11. TOXICOLOGICAL INFORMATION**

### **EXPERIENCE OF PRACTICE**

Eye contact :- No more than slightly irritating to the eyes, long term: None Known.  
Skin contact :- No more than slightly irritating to the skin, long term: None known.  
Ingestion :- Unlikely to be harmful by ingestion LD<sub>50</sub> > 2000 mg/kg (estimated).  
Inhalation :- Unlikely to be harmful or irritating on inhalation.

### **ADDITIONAL TOXICOLOGICAL INFORMATION**

There are no data on the preparation itself.

## **12. ECOLOGICAL INFORMATION**

### **DETAILS ON ELIMINATION (PERSISTANCE / DEGRADABILITY)**

There are no data on the preparation itself.

### **ADDITIONAL ECOLOGICAL INFORMATION**

Do not empty into water or sewer drains unless authorised.

## **13. DISPOSAL METHODS**

### **DISPOSAL CONSIDERATIONS**

Dispose of or incinerate in accordance with corresponding regulations.

### **CONTAMINATED PACKAGING**

Unclean packaging must be disposed of in the same manner as the medium. Contaminated packaging must be emptied of all residues and following appropriate cleaning, may be sent to a recycling plant.

## **14. TRANSPORT INFORMATION**

Not classified as dangerous for transport.

## **15. REGULATORY INFORMATION**

### **CLASSIFICATION ACCORDING TO EC DIRECTIVES**

None. No EC risk and safety phrases apply.

## **16. OTHER INFORMATION**

This product should be stored, handled and used in accordance with good industrial hygiene practice and in conformity with any legal requirements. The information contained herein is accurate to the best of our knowledge and belief and is intended to describe the product from the point of view of health and safety requirements.

## **DEPARTMENT ISSUING DATA SPECIFICATION SHEET**

Laboratory/Product safety.