# **Technical Information**

Replaces previous technical information dated 01/08/2010



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## KIWOCLEAN CONCENTRATED INK WASH

## 1. DESCRIPTION

KIWOCLEAN CONCENTRATED INK WASH is a screen cleaning concentrate formulated to be diluted with water. It is very effective on Plastisol, UV, and water-based inks, as well as some solventbased inks. Its high flash point and low foaming characteristic make it especially suitable for use in automatic screen washing units. KIWOCLEAN CONCENTRATED INK WASH is mild in odor and biodegradable.

## 2. APPLICATION

## For Use with Automatic Washout Equipment\*

\*Not all ink wash equipment may be equipped for use with aqueous solutions.

Determine the capacity of the tank and calculate the required amounts of water and KIWOCLEAN CONCENTRATED INK WASH.

Depending on ones level of performance expectation, and due to the many process and production variables that influence the cleaning performance of all ink cleaning products, it is difficult to prescribe a perfect mixing ratio.

#### **GENERAL INSTRUCTIONS:**

For easier to remove ink systems such as Plastisol and UV inks, a 1:3 mixture ratio, 1 part KIWOCLEAN CONCENTRATED INK WASH to 3 parts, water may perform quite well.

For difficult to remove ink systems such as many solvent-based systems, or if a stronger ink dissolving performance is desired, a 1:1 mixture ratio may be required.

If more ink cleaning power is needed, add less water to the mixture ratio. If cleaning power is acceptable and more economy is desired, add more water to the mixture ratio.

With a little testing, you will be able to determine the best mixture ratio for your circumstances.

Mix the required amounts in the tank of the machine. It is useful to fill the tank only 90% full in initial testing to allow fine-tuning the cleaning mixture for optimum results.

#### Example #1:

Assumptions:

- 40 gallon tank capacity
- Removing Plastisol or UV ink at 1:3 mixture ratio

Preparation instructions:

- 1) Fill tank to 90% of 40 gallon capacity or 36 gallons of mixture to allow fine tuning of mixture
- Determine mixture amount by part by dividing 36 gallons by 4 since you want 4 total parts - 1 part KIWOCLEAN CONCENTRATED INK WASH with 3 parts water - 36/4 = 9 gallons per part
- Mix 9 gallons (1 part) of KIWOCLEAN CONCENTRATED INK WASH into 27 gallons (3 parts) of water to make a total volume quantity of 36 gallons

## Example #2:

Assumptions:

- 40 gallon tank capacity
- Removing Solvent-based ink at 1:1 mixture ratio

Preparation instructions:

- 1) Fill tank to 90% of 40 gallon capacity or 36 gallons of mixture to allow fine tuning of mixture
- Determine mixture amount by part by dividing 36 gallons by 2 since you want 2 total parts – 1 part KIWOCLEAN CONCENTRATED INK WASH with 1 part water – 36/2 = 18 gallons per part
- Mix 18 gallons (1 part) of KIWOCLEAN CONCENTRATED INK WASH into 18 gallons (1 parts) of water to make a total volume quantity of 36 gallons

After some period of use, the mixture will become less effective due to contamination by ink, and consumption of the KIWOCLEAN CONCENTRATED INK WASH. The addition of small amounts of KIWOCLEAN CONCENTRATED INK WASH will restore effectiveness, until the mixture becomes overly contaminated. At this point, replace with a completely fresh mixture.

KIWO can assist with programming the machine parameters to obtain effective cleaning results. Observe the instructions given by the machine manufacturer.

<u>Notice:</u> When working with so-called permanent stencils it is recommended to use emulsions that are both solvent and water resistant. Ask KIWO for advice.

Many different inks are being used that have not been tested by us. Therefore, please test the suitability of our product for your specific application and circumstances by asking for samples at no cost.

#### For Manual Cleaning Use

Determine the mixture ratio based upon what types of ink is to be removed:

Depending on one's level of performance expectation, and due to the many process and production variables that influence the cleaning performance of all ink cleaning products, it is difficult to prescribe a perfect mixing ratio.

#### **GENERAL INSTRUCTIONS:**

<u>For Plastisol and UV inks</u> start with a 1:2 mixture ratio – 1 part KIWOCLEAN Concentrated Ink Wash to 2 parts water.

For solvent-based inks start with a 1:1 mixture ratio.

For removing stains and degreasing a 1:1 or 1:2 mixture ratio can be used.

Test the mixture on a production screen. Scrubbing with a brush enhances performance.

If more ink removing power is needed, add more KIWOCLEAN CONCENTRATED INK WASH, noting the volume added in order to keep track of the final effective mixture ratio.

This data sheet is for your information; a legally binding guarantee of the product's suitability for a peculiar application cannot be derived. No responsibilities can be undertaken for occurring damages. Our products are subject to a continuous production and quality control and leave our factory in perfect condition.



If the ink removing power is satisfactory and you want to see how much more cost effective you can make it, add more water, again noting the volume added in order to keep track of the final effective mixture ratio.

Continue to adjust the solution ratios until the desired working solution is found. Record the final ratio and maintain the working solution.

NOTE: The solution should to be stirred/mixed before each use.

The products need to be mixed within 1-2 weeks of use. If the cleaning performance is getting weaker, add more KIWOCLEAN CONCENTRATED INK WASH to rejuvenate the mixture.

## 3. PHYSICAL DATA

Color: Light Brown

Consistency: Liquid

Shelf Life: 1 year at 20°- 25° Celsius in original container

Flash Point: +90℃

TLV: None Established

VOC before dilution VOC: 913 grams/liter 7.6 pounds/gallon

VOC after 1:2 dilution with water VOC: 304 grams/liter 2.5 pounds/gallon

VOC after 1:3 dilution with water VOC: 228 grams/liter 1.9 pounds/gallon

<u>HMIS rating prior to dilution:</u> Health - 1 Flammability - 2 Reactivity – 0

<u>HMIS rating after 1:2 dilution:</u> Health - 1 Flammability - 1 Reactivity – 0

<u>HMIS rating after 1:3 dilution:</u> Health - 1 Flammability - 1 Reactivity – 0

#### 4. PERSONAL PROTECTION

When working with KIWOCLEAN CONCENTRATED INK WASH, it is recommended to wear suitable safety gloves and goggles. Please follow further information given in the material safety data sheet.

## 5. ENVIRONMENTAL PROTECTION

In usual working dilution, KIWOCLEAN CONCENTRATED INK WASH solutions can safely be emptied into drains. Please follow further information given in the material safety data sheet.

#### 6. PACKAGING

1 US quart, 1 US gallon, 5 US gallon containers, 18.3 gallons provided in 55 gallon drum to make 55 gallons working solution at a 1:2 dilution ratio with water, 55 US gallon drums

## 7. ADDITIONAL INFORMATION

For additional product information, please visit our web site at <u>www.kiwo.com</u>. All products mentioned in this Technical Information are available through KIWO Inc. and its distributor network. For further information contact your authorized KIWO distributor or KIWO directly.

Thank you for choosing KIWO.