

KIWOCLEAN® CF 580 (max. 1:80)

Liquid screen decoating concentrate (max. 1:80)

KIWOCLEAN CF 580 is a highly efficient, liquid decoating concentrate for the removal of direct photoemulsions / films from screens. KIWOCLEAN CF 580 has especially been developed for automatic screen decoating units and does not crystallize in the units or tanks due to special stabilizers. KIWOCLEAN CF 580 has no attack on stainless steel. KIWOCLEAN CF 580 is used in a dilution of 1:60 to 1:80 in tap water, depending on the field of application. KIWOCLEAN CF 580 solutions are colourless and without odour, chlorine free, have very little attack on the mesh and do not bleach. KIWOCLEAN CF 580 can be diluted in water at any ratio.

APPLICATION

The ready-to-use decoating solution is prepared by adding 60 - 80 l of tap water to 1 l of KIWOCLEAN CF 580, depending on the field of application. When used in automatic screen decoating units observe the dosing instructions given by the machine manufacturer. Concentration and reaction time orient themselves to the working requirements and can be determined by our technical staff if required. Our recommendation to dilute 1:60 to 1:80 with water is applicable for emulsions which are easily decoatable; in case of water-resistant emulsions a lower dilution ratio might be more appropriate.

Screens which have been treated with KIWOCLEAN CF 580 have to be rinsed with water. Strong foaming may occur due to dissolved particles of photoemulsion. This foaming can be avoided by adding approx. 0,05 – 0,3% of KIWOMIX ZL 1064.

Notice: KIWOCLEAN CF 580 is acidified to avoid precipitation after dilution with "hard" water. Acid components may attack and discolour steel- and galvanized steel-frames. Please therefore test the suitability of our product for the frame type used. Ask your KIWO distributor or KIWO direct for advice.

PRODUCT DATA

Colour: colourless, clear
Consistency: liquid
Density (20°C): approx. 1,23 g/cm³
pH-value: approx. 2,3 (dilution 1:70)

HEALTH HAZARDS/ ENVIRONMENTAL PROTECTION

When working with KIWOCLEAN CF 580 it is recommended to wear suitable safety goggles and gloves. Remove drops on the skin with plenty of water.

Do not allow KIWOCLEAN CF 580 to dry on organic materials (e.g. cleaning rags made of paper, textile or various synthetics) or combustible filter materials, this may lead to self-ignition.

Use KIWOCLEAN CF 580 as intended only as screen decoating agent. Do not mix it with other chemicals. Beside uncontrollable oxidation reactions, brown, toxic iodine can be generated.

If KIWOCLEAN CF 580 spray mist is produced, ensure sufficient ventilation – do not inhale. Avoid contact with bleaching cleaners which contain chlorine (PREGAN ANTI-GHOST) as chlorine gas is produced.

KIWCLEAN CF 580 does not contain any heavy metals nor chlorine compounds and can safely be emptied into drains in usual working dilution. Due to the oxidative effect, AOX-Value-Determinations according to DIN EN ISO 9562 may be influenced.

Please follow further information given in the material safety data sheet.

STORAGE

2 years (at 20 - 25°C).

When affected by frost, a white deposit may settle on the bottom of the container. This can be dissolved by warming up to room temperature and thorough stirring.

With regards to All-in-One applications, observe the following:

Screen decoating concentrates contain strong oxidizers which may react intensively with organic substances or solvents even up to self-ignition. In concentrated form, they must **not** be mixed with organic solvents.

When using so-called All-in-One cleaning solutions, water, organic solvents with flash point over 55°C and screen decoating concentrates are being mixed and thereby reduced. To what extend is there a risk?

- 1) Typically, all-in-one cleaning solutions contain at least 50% of water.
- 2) 5% of a 1:20 screen decoating concentrate or 1,2 % of a 1:80 screen decoating concentrate are being added.
- 3) The content of organic solvents by adding cleaner is at a maximum of 50%.

Therefore the content of oxidizer in the complete solutions is at a maximum of 1%, the content of water at a minimum of 50% and the content of solvent with a flash point of over 55°C at a maximum of 50%.

Provided the technical requirements comply, it is safe to assume that there is no increased risk of hazard when mixing screen decoating concentrate with organic solvents since there is at least 50% water mixed with a maximum of 1% of oxidizer contained, hence self ignition is prevented even when spraying. The same applies for decoating solutions in circuit machine where organic solvents are being entrained during the cleaning process.

Observe following safety rules in any case in order to ensure safe application and avoid extended risks:

- 1) Do **not** mix the screen-decoating concentrate **in concentrated form** with organic solvents. When preparing the solution, fill in water first, then add the screen decoater and the solvent solution by stirring.
- 2) Avoid effectively that the screen decoater and the solvents dry up in concentrated form and considerable quantities within the screen washing unit, since this leads to a concentration of the oxidizers and hence increases the hazard risk. Effective measures are the continuous rinsing of the cleaning/water/decoater mixture with high pressure and the reduction of entrainment.