Cleanmatic MF 12-2

Water reducable screen cleaning concentrate, biodegradable

Cleanmatic MF 12-2 is a screen cleaning concentrate which is used diluted with water and especially suitable for cleaning plastisol, solvent and UV inks. It has been especially developed for use in automatic screen washing units and produces little foam.

APPLICATION
Fill **Cleanmatic MF 12-2** in the automatic screen washing unit and mix with water. Add fresh **Cleanmatic MF 12-2** to balance losses due to evaporation. Also one must check the degree of contamination of the cleaning bath. The parameters for good cleaning results can be programmed into the washing unit by our technical staff if required. Observe the instructions given by the machine manufacturer.

Example of dilution for the cleaning of UV or plastisol inks:
5 litres **Cleanmatic MF 12-2**
15-20 litres water

When cleaning solvent based inks **Cleanmatic MF 12-2** is diluted approx. 1:1 with water.

Some time after mixing with water, a separation is developing which is to be homogenized in the storage tank by stirring or pumping.

Notice: When working with so-called permanent stencils we recommend using solvent *and* water resistant emulsions. Ask our technicians for advice.

A lot of different ink types are being used in practice which have not all been tested by us. Therefore, please accept our offer and test the suitability of our product for your specific application by asking for samples.

Colour	yellowish
Density	approx. 1,075 g/cm^3
Flash point	approx. +94°C (No flash point after dilution with water)
HEALTH HAZARDS/ ENVIRONMENTAL PROTECTION	When working with **Cleanmatic MF 12-2**, we recommend wearing suitable safety gloves and goggles. Please follow further information given in the material safety data sheet.
DISPOSAL	The used bath solution and the foam produced by ink and photoemulsion must be disposed of properly. Bath solution which has been contaminated with inks should not be emptied into drains without prior treatment.

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STORAGE	2 years (at 20 - 25°C and original container) If stored at temperatures under 10°C solids can separate. Normal consistency can be achieved by warming up to room temperature and/or stirring.

In 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 from, 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.

Notice: During stencil cleaning the frame adhesive can be contaminated by leftover solvents. Ask KIWO to recommend a suitable adhesive.

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.