

# FOMADUX LP-ECO, FOMADUX FIX - ECO

## PROCESSING SOLUTIONS FOR RADIOGRAPHIC FILM PROCESSING

### General information

The liquid concentrates of chemicals are intended for both automatic and manual processing of industrial X-ray films in processing machines using 8 – 12 minutes cycle. The processing solutions are prepared by diluting concentrated chemicals with water. They do not contain chemicals with adverse impacts on the environment or human health. The baths are primarily intended for the processing of FOMA industrial X-ray films, however, they may also be used to process comparable products of other manufacturers.

The processing baths are labelled as follows:

Developer / Replenisher FOMADUX LP-ECO

Hardening fixer FOMADUX FIX - ECO

### Characteristics

Developer / Replenisher FOMADUX LP-ECO is a single-component concentrate for preparing a developer for manual and automatic processing of industrial x-ray films. The developer provides high image quality and is typical with particularly fine grain and well-balanced contrast, making full use of the film speed. The composition of the developer makes the maintenance of the developing tanks and devices easier and prevents sediment formation even when hard water is used. The processing developer solution is classified as safe and health- and environment-friendly.

Hardening fixer FOMADUX FIX-ECO is a single-component fixer concentrate based on ammonium thiosulphate which provides high fixing speed and efficiency. It is typical with its increased hardening capacity, high buffering power, and long-term stability. The processing fixer solution is classified as safe and health- and environment-friendly.

### Packing

Developer / Replenisher FOMADUX LP-ECO

1 container of 5 litres of concentrate

Hardening fixer FOMADUX FIX-ECO

1 container of 5 litres of concentrate

### Storage

The chemicals should be stored in the original packing in a dry place without access to intense light at temperatures of +5 to +25 °C. The maximum shelf life of the developer working solution is 6 weeks on condition of continuous device use. After this time the processor content needs to be replaced and environmentally friendly dispose also of the unused working solution.

In case of a film processor downtime exceeding 5 calendar days, it is strongly recommended before the processor's next operational deployment, make a test with a pre-exposed test film strip monitoring the quality of processing.

### Preparation of working solutions

The developer solution is prepared by adding 12 litres of water to 5 litres of FOMADUX LP-ECO Replenisher, which forms 17 litres of solution. This amount of solution allows developing approximately 20 m<sup>2</sup> of material. The recommended replenishment of developer by freshly prepared solution during automatic processing is 600 to 800 millilitres per 1 m<sup>2</sup> of material.

The fixer solution is prepared by adding 12 litres of water to 5 litres of FOMADUX FIX-ECO Fixer, which forms 17 litres of solution. This amount of solution allows fixing approximately 15 m<sup>2</sup> of material. The recommended replenishment of fixer by freshly prepared solution during automatic processing is 1000 to 1200 millilitres per 1 m<sup>2</sup> of material.

*Recommended conditions for automatic processing:*

temperature	developing time	fixing time
28 °C	2 min.	2 min.

*Recommended conditions for manual processing:*

temperature	developing time	fixing time
26 °C	2.5 min.	2 min.
24 °C	3 min.	2 min.
22 °C	4 min.	2 min.
20 °C	5 min.	2 min.

*The minimum fixing time for both processes is 100 sec.*

We recommend determining the values for each specific film and machine by trial processing.

If necessary, feel free to consult FOMA employees.

*Information on the environmental ways of disposal, principles of safe handling during transport, storage and use are stated in the safety data sheet of the product.*

The product has been manufactured and marketed in compliance with the quality system as per international standard EN ISO 9001.