

**FACT SHEET/USER INSTRUCTIONS
(INTERIM DOCUMENT)**

**HARMAN SELENIUM
TONER**

TONER FOR THE DISH/TRAY TONING OF BLACK AND WHITE PHOTOGRAPHIC PAPERS TO PRODUCE WARM, ARCHIVED PRINTS

HARMAN SELENIUM TONER is a liquid concentrate toner, designed for the dish/tray toning of all black and white photographic papers both resin coated (RC) and traditional fibre based (FB). This toner provides a simple and effective approach for the user wishing to produce Selenium toned prints. It should be used at ambient room temperatures, nominally 20°C/68°F. We do not recommend its use in high temperature or machine processing applications. It is also not suitable for processing papers or films. **HARMAN SELENIUM TONER** delivers an archival, visibly warmer print to the user, with the additional benefit of a toner that is convenient, versatile and with a long working dish life.

Health and Safety Information

Toxic if swallowed. May cause sensitisation by skin contact. Keep away from FOOD, DRINK AND ANIMAL FEEDING STUFFS. Avoid contact with skin. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). Wear suitable gloves and eye/face protection. Keep locked up and out of reach of children. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Additional Safety Information

HARMAN SELENIUM TONER is a toxic chemical and therefore it must be handled with appropriate care. When using this product, we strongly recommend that you always work in a well-ventilated area, preferably with some form of air extraction system. You should also ensure that you wear rubber gloves in all use and disposal of this product.

Preparation Instructions

Note: Please read this document for the health and safety information and recommendations. A material safety sheet for each product can be obtained from your ILFORD Photo agent or directly from the ILFORD Photo web site at www.ilfordphoto.com. Always wear gloves, glasses and an apron whilst preparing and using chemicals. You will require three separate trays for toning prints. The tray in the centre will hold the HARMAN SELENIUM

TONER. The trays either side of this will hold plain water, 4°C warmer than the HARMAN SELENIUM TONER.

Stop, Fix and Wash

Prior to toning, your print should be properly fixed and fully washed. The following chemicals are recommended for these processes:

ILFORD ILFOSTOP stop bath 1+19 for 10 seconds at 18-24°C (64-75°F).

Fixer 18-24°C (64-75°F).	RC paper Time (min)	FB paper Time (min)
ILFORD RAPID Fixer 1+4	½	1
ILFORD RAPID Fixer 1+9	1	2
ILFORD HYPAM Fixer 1+4	½	1
ILFORD HYPAM Fixer 1+9	1	2

USER INSTRUCTIONS

Wash RC papers for 2 minutes in fresh running water above 5°C/41°F.

Wash FB double weight papers for 1 hour in fresh running water above 5°C/41°F.

Alternatively, use the ILFORD wash sequence for optimum permanence.

Water above 5°C/41°F	5 minutes
ILFORD WASHAID1+4 @20°C/68°F(with intermittent agitation)	10 minutes
Water above 5°C/41°F	5 minutes

HARMAN SELENIUM TONER

When washing is complete, place the prints in a holding tray of water, approximately 4°C/39°F warmer than the temperature of your working strength solution of **HARMAN SELENIUM TONER**.

If this is your first experience of toning prints, we suggest that you first make two identical prints and leave one in the holding tray of water to refer to during the toning process, as this will help you to identify changes in the density and colour. As you gain experience in toning, you will not find it necessary to use a reference print.

Mixing Instructions

To make working strength toner dilute HARMAN SELENIUM TONER concentrate 1+3 with water. When mixing process solutions always stir them thoroughly before use. The working strength toner should be used at room temperature, nominally 20°C/68°F(+/- 1°C/2°F). Mix your **HARMAN SELENIUM TONER** to the desired dilution and temperature. Be sure to prepare sufficient solution. As a guideline, 3 litres of working solution will be sufficient to use in a tray measuring 12"x16" (30.5x40.6cm). You are now ready to commence toning.

Toning

Using both hands, take hold of your print by the top corners, lifting it from the holding tray of water. Quickly slide it into the toning solution and then agitate for the whole period of toning by gently rocking the tray. Do not continually observe the print in the toner as this makes it harder to observe the subtle changes occurring. During the toning process, regularly refer to your identical print in the holding tray to help you identify these changes.

When you are satisfied your print has achieved the desired tonal colour, remove it from the tray and place it into your second holding tray of water. Agitate the print for 30 – 40 seconds, to stop the toning action. If it requires additional toning, simply place the print back into the toning solution and continue as before. When you have achieved the desired level of toning, wash the print for another 20 minutes in fresh running water above 5°C/41°F.

USA Warranty

Limited 1-year warranty applicable only in USA.

ILFORD Photo will replace this product if defective in manufacture, packaging or labelling and returned to **HARMAN technology Llc**, 637 Wyckoff Avenue, Suite 332, Wyckoff, NJ 07481, USA, within one year of purchase. Any warranty, which may be implied by law are limited to the duration of this express warranty. Any and all liability for incidental and consequential damages other than for personal liability is disclaimed. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

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