

RAPITONE M1 - M2

Photographic black-and-white papers with variable contrast using coloured filters

Rapitone M1 - M2 are photographic black-and-white papers with variable contrast through the use of coloured filters. Being orthochromatic and coated on a waterproof polyethylene base, they are suitable for all contact and enlargement work.

Weight of the paper base: M1 = 270 g/m²

Two surface types: M1 = glossy and M2 = semi-matt.

■ Applications

The papers are used in aerial photography for making contact prints and enlargements for rectifications. They are also suitable for making mosaics, for studies, reconnaissance, publicity and decoration purposes.

Within one image it is possible to increase some contrasts and/or to decrease others through partial exposures with different filter combinations.

The use of M1 - M2 reduces your stocks of photographic paper, by eliminating many conventional paper types and gradations.

■ Characteristics

The gradation of Rapitone multi-contrast paper can be varied gradually from extra low to very high contrast by using

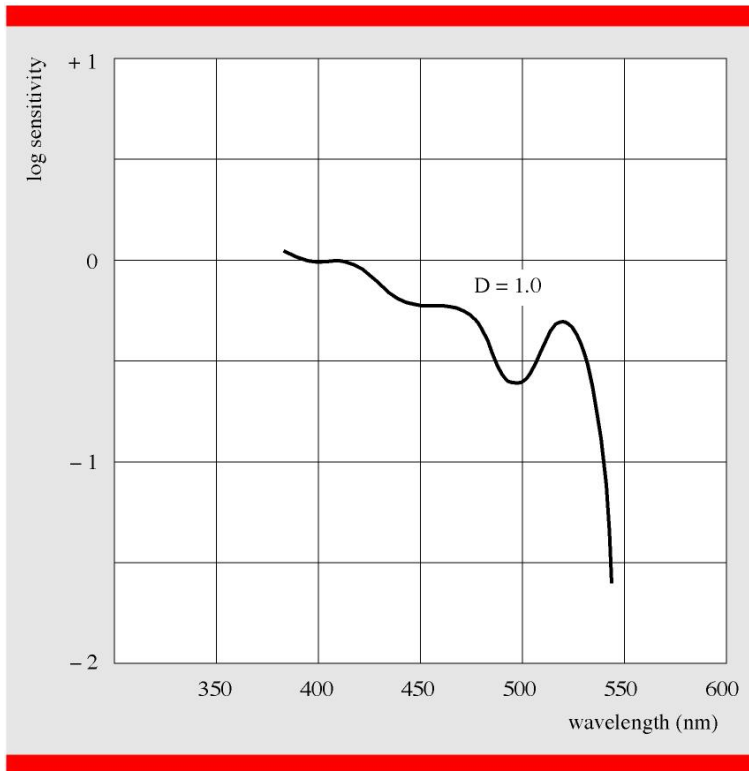
standard black-and-white enlargement equipment with multi-contrast filters
enlargers equipped with a colour head or a filter head for multi-contrast paper.

The image copied onto Rapitone M1 and M2 is black on a white background.

■ Photographic data

Colour sensitivity: orthochromatic.

Spectral sensitivity:



Density 1.0 in reflection.

The sensitivity is reciprocal of the exposure (in mJ/m^2) required to achieve the indicated density.

Multi-contrast paper offers a larger gradation range than a composition of papers with fixed gradation. Negatives with a density between 0.5 to 1.7 can easily be printed on Rapitone M1 - M2.

■ Production guidelines

Darkroom lighting

The use of an Agfa G7 filter (green filter, 560 nm to 580 nm) or equivalent is recommended over a 15W incandescent lamp, at a minimum distance of 1 m from the photographic material, for maximum 3 minutes.

Red filters, such as Agfa R1, R3, R4, R5 and R6, are also suitable.

Exposure

If you work with a set of Agfa's multi-contrast filters and you wish to use the different contrast qualities of Rapitone M1 - M2, you can keep the same exposure time by making filter combinations when using filters ranging from -1 to + 3.1/2. For filters with higher number, the exposure has to be doubled.

Agfa's multi-contrast filter set contains 14 filters, ranging between No. -1 and No. +5.

It is recommended to use filter numbers -1 up to 1 for high contrast negatives, numbers 2 up to 3 for negatives with normal contrast and filters numbers 4 up to 5 for negatives with poor contrast.

When you use a colour head (yellow and magenta filters), each time a different filter density is used and the correct exposure time will have to be determined experimentally. With some of the colour heads it is not possible to get the complete range of contrast variation.

Filtersets

	Size	Order code
Set of 12 filters	89 x 89 mm	EQ9E3
Set of 12 filters	152 x 152 mm	EQ9D1
Set of 2 filters Nos. 3 and 4	89 x 89 mm	37AF6

Multi-contrast filter equivalents

Filters in colour head	0	1	2	3	4	5
Agfacolor	120Y	30Y	20M	110M	290M	420M
Kodak CP or CC	80Y	30Y	10M	50M	110M	200M
Durst	60Y	25Y	10M	30M	60M	130M

Processing

Since the emulsion of Rapitone M1 - M2 contains developing agents, you have the choice between a developer and an activator.

Recommended processing:

Developer or fixer	Dilution	Temperature	Development/Fixing time (guideline)
Neutol developer	1+7	30°C	30 s
G 74 c developer	1+2	30°C	30 s
Pdev developer	1+1	35°C	20 - 25 s
Pfix	1+4	30°C	30 s

Development in tray at 20°C, at double the development and fixing times.

■ Storage

Like all black-and-white photographic papers, Rapitone M1 and M2 have to be stored in cool and dry conditions. Once the packaging has been opened, the material should be kept in its own inner and outer packaging, protecting the paper against light and humidity.

■ Assortment

Rapitone paper type	Size	Packaging	Ordering code
M1 - glossy	25,4 cm x 25,4 cm	100 sheets	4LKLP7
M1 - glossy	106,7 cm x 30,50 m	UCT76	4LKQA
M1 - glossy	12,7 cm x 17,8 cm	100 sheets	4LKSE
M1 - glossy	12,7 cm x 213 m	UCT76	4LKRC
M1 - glossy	24 cm x 30,5 cm	100 sheets	4LKTG
M1 - glossy	50,8 cm x 61 cm	50 sheets	4LKUJ
M1 - glossy	30,5 cm x 40,6 cm	50 sheets	4LKVL
M1 - glossy	31,3 cm x 20 m	UCT76	4LKWN
M2 – semi-matt	106,7 cm x 30,50 m	UCT76	RCZEO
M2 – semi-matt	121,9 cm x 30,50 m	UCT76	RCZDQ
M2 – semi-matt	21,6 cm x 27,9 cm	100 sheets	RCZGS
M2 – semi-matt	24 cm x 25,8 cm	100 sheets	RCZHU
M2 – semi-matt	24 cm x 30,5 cm	100 sheets	RCZJW
M2 – semi-matt	24 cm x 76,20 m	UCT76	RCZKY
M2 – semi-matt	25,4 cm x 25,4 cm	250 sheets	RCZL1
M2 – semi-matt	25,40 cm x 152,50 m	UCT76	RCZM3
M2 – semi-matt	40,6 cm x 50,8 cm	100 sheets	RCZN5
M2 – semi-matt	50,8 cm x 61 cm	50 sheets	RCZO7
M2 – semi-matt	61 cm x 30,50 m	UCT76	RCZPA
M2 – semi-matt	61 cm x 76,2 cm	50 sheets	RCZQC
M2 – semi-matt	76,2 cm x 101,6 cm	50 sheets	RCZRE
M2 – semi-matt	76,20 cm x 30,50 m	UCT76	RCZSG
M2 – semi-matt	91,40 cm x 30,50 m	UCT76	RCZTJ
M2 – semi-matt	25 cm x 27 cm	250 sheets	RCZUL
M2 – semi-matt	24 cm x 26 cm	250 sheets	RCZVN
M2 – semi-matt	49,5 cm x 51 cm	100 sheets	RCZWP
M2 – semi-matt	49,5 cm x 53 cm	100 sheets	RCZXR
M2 – semi-matt	110,5cm x 20 m	UCT76	RCZYT
M2 – semi-matt	94 cm x 30,5 cm	UCT76	RCZVV

Multi-contrast filter set	Size	Ordering code
12 filters from -1 to +5	89 mm x 89 mm	EQ9E3
12 filters from -1 to +5	152 mm x 152 mm	EQ9D1
2 filters nr. 3 and nr. 4	89 mm x 89 mm	37AF6

Standard sizes are available from stock. For non-standard products, kindly ask your Agfa-representative.

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 January 2009