

Permanent Marker Inks With Cap-Off Properties

General Information

Dokumental® MA 23xx series is available in a wide variety of colours and offers an excellent overall performance. The finished markers can have a cap-off time up to several days depending on the colour and the chosen components.

Suitable Surfaces

For most smooth surfaces, papers and cardboards.

Applicable Standards & Regulations on request

Physical Data

Type	Colour	Surface Tension mN/M ± 2.0	Viscosity at 20°C mPa s ± 0.5	Density g/cm ³ ± 0.02
Dokumental® MA 2300	blue	25	4.5	0.88
Dokumental® MA 2301	dark blue	25	4.7	0.88
Dokumental® MA 2303	light blue	25	2.1	0.88
Dokumental® MA 2304	dark blue	25	3.3	0.88
Dokumental® MA 2310	black	25	4.2	0.88
Dokumental® MA 2313	black	n.d.	4.0	0.87
Dokumental® MA 2314	black	25	5.0	0.88
Dokumental® MA 2315	black	25	2.4	0.88
Dokumental® MA 2320	red	25	5.1	0.88
Dokumental® MA 2323	red	25	4.4	0.88
Dokumental® MA 2328.1	red	n.d.	4.5	0.90
Dokumental® MA 2329	red	n.d.	1.9	0.87
Dokumental® MA 2331	dark green	25	5.3	0.88
Dokumental® MA 2332	yellow green	25	6.1	0.88
Dokumental® MA 2334	green	25	6.2	0.88
Dokumental® MA 2340	violet	25	4.6	0.88
Dokumental® MA 2341	blue violet	25	4.7	0.88
Dokumental® MA 2350.1	brown	n.d.	4.7	0.89
Dokumental® MA 2360.1	yellow	25	4.6	0.88
Dokumental® MA 2361	orange	25	6.0	0.88
Dokumental® MA 2362	red orange	25	4.7	0.88
Dokumental® MA 2370	pink	25	4.5	0.88
Dokumental® MA 2371	magenta	25	4.3	0.88
Dokumental® MA 2372	lilac	25	4.8	0.88

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Technical Advice**Suitable Components**

The inks are incompatible with polystyrene, ABS and polyamide (NYLON)

Nibs:	polyester, acrylic
Reservoirs:	polyester, polypropylene
Barrels:	polypropylene, rigid PVC, for pure aluminum, corrosion tests are recommended in order to approve the compatibility with the different aluminum qualities available on the market
Caps, Plugs:	polypropylene, HD-polyethylene

It is mandatory to approve the compatibility of the ink and the components as well as the performance of the writing system.

Storage, Handling & Transportation

Before use of our product the filling station has to be maintained and cleaned carefully. The inks are sensitive to any kind of contamination. Cross-contamination of the inks may lead to a colour mismatch or will even lead to a defective marker or shorter shelf life.

Store our product frost protected and avoid direct sunlight. The recommended storage temperature is between 10°C and 30°C. Storage temperatures of above 30°C for several days bear the risk of a reduced shelf life of the ink.

The shelf life of the inks in original sealed containers is 2 years.

After usage the drums have to be closed again tightly.

Horizontal storage of the markers is recommended in order to get the maximum shelf life.

CAUTION: the inks are classified as flammable liquids! For detailed safety information refer to the respective Material Safety Data Sheets.

Packaging

standard packaging: 20kg plastic canister (further packaging units on request)

Produced by

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