

T 00 – 4001,4003 (MIRROR INK)

Technical Data Sheet

1. FIELD OF APPLICATIONS:

Versatile one or two component ink for screen printing rotary pad printing in order to achieve a mirror –like or chrome effect on transparent materials on acrylic, polycarbonate, pre-treated polyethylene (PE) and polypropylene (PP). Substrates may differ in their chemical structure or method of manufacture. A test for suitability must always be carried out before printing. Antistatic, Mould Release Agents and Slip Additives may have negative effects on adhesion, and should be detected and removed prior to printing.

2. PROPERTIES:

This special brilliant silver is developed to create mirror or chrome effect on transparent substrates. This effect can only be achieved while printing the ink reverse by meaning on the backside of the material.

A special product test is recommended prior to production. The raw materials used in the ink corresponds to the EEC regulation EN 71 (Safety of Toys), part 3 (Migration of Certain Elements), regulations of December 1994

3. COLOUR RANGE:

Screen Printing Silver	T 00 - 4001
Rotary Pad Printing Silver	T 00 - 4003

4. ADDITIONAL PRODUCTS:

As for protection against mechanical and chemical damages it is necessary to overprint the silver with a varnish. In order to achieve a better opacity the silver can be overprinted with a black colour shade. Please contact our Technical Service Department for further details.

Varnish Black	T 00 - 0005 T 00 – 9007
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5. ADDITIVES:

5.1 Thinner:

Prior to production, the printing ink has to be adjusted to the printing viscosity by the addition of thinner.

Thinner, standard (addition: 15 - 25 %)	VD 35696
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5.2 Retarder

Retarder will influence the drying time of the ink under different climate conditions.

Retarder, standard (addition 5 – 10 %)	VZ 38 693
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5.3 Adhesion Modifier:

In order to achieve a better adhesion on various substrates Adhesion Modifier can be used.

Adhesion Modifier (max. 2%)	100 VR 1397
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6. PROCESS INSTRUCTIONS:

6.1 Screen / Cliché / Printing Equipment / Pad:

It is recommended to use a mesh from 100 – 120 threads/cm. Squeegee 65 to 75 shores.

6.2 Drying:

At room temperatures (21° C) the ink is grip dry within 5 minute. To accelerate the ink drying onto the substrate the use of hot air blower or infrared lamps is recommended. It must be noted that after heat treatment a cooling section must be installed in order to avoid that the printed parts stick together.

7. CLEANING:

Clichés, squeegees and so on can be cleaned with the RUCO Universal cleaner 35 352. It must be noted that the pad does not come into contact with solvents. For the cleaning of the pad please see to the application references of the pad manufacturers.

If cleaning is not performed by fully automatic cleaning equipment, protective gloves must be worn.

Universal Cleaner	UR	35 352
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8. SHELF LIFE:

A shelf life of 6 months is guaranteed when storing the inks at 21°C and in the original packing container. At higher storage temperatures the shelf life will be reduced.

9. PRECAUTIONS:

For further information on the safety, storage and environmental aspects concerning these products please refer to the Material Safety Data Sheet (MSDS).

Additional technical information may be obtained from our Technical Application Department.

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