



Matt Lacquer ATM WB 3 (fine)

Water-based Screen Printing Lacquer

Area of Application and General Characteristics

Matt Lacquer ATM WB 3

- is a water-based, formable matt lacquer system
- was developed for overprinting speedometer panels made of PC films
- shows good scratch resistance
- suitable for overprinting Pröll ink NORIPHAN® HTR.

Printed films are excellent deep-drawable by vacuum and high pressure forming. The matt lacquer can be used as well for matting high gloss films made of PC and rigid PVC. The screen printed deep matt lacquer surface has a soft grip and shows good scratch and chemical resistances.

Color

Colorless, turbid liquid

Auxiliaries

Mixing Ratio and Pot Life

Addition of **5 % Crosslinker ATM WB** is necessary to achieve sufficient adhesion and scratch resistance.

Pot life: 30 hours, depending on quantity and room temperature.

Thinner

Matt Lacquer ATM WB 3 is press ready (after addition 5 % Crosslinker ATM WB).

Processing of Matt Lacquer ATM WB 3

Fabrics

77-48 threads/cm (195 threads/inch) to 100-40 threads/cm (255-40 threads/inch)

Stencil	Water resistant emulsions must be used. Excellent results during long production runs are achieved by using Pröll Diazo-UV-Polymer Emulsion Norikop 8 HR. Sufficient drying of the emulsion is essential, residual moisture before exposure reduces print run resistance.
Printing	The relative humidity in the printing room should be 50 – 60 %. Immediately after printing, the stencil has to be filled with Matt Lacquer ATM WB 3 again. Handling Matt Lacquer ATM WB 3 in this way provides trouble-free production.
Drying	Matt Lacquer ATM WB 3 dries by evaporation of water. Chemical curing occurs in the stack. Drying on racks is also possible.
Drying Hints	3-section dryer: <ul style="list-style-type: none"> • First section: room temperature • Second section: 80 °C (176 ° F) • Third Section: cooling The drying results depend on the ink layers to be overprinted, the thickness of the lacquer layer and the performance of the dryer.
Conditioning	The printed films should be dried thoroughly for further processing. The lacquer remains flexible for 3D forming even if it is completely cured. Forming should be conducted within 4 weeks after printing.
Cleaning	Spray water on contaminated equipment to avoid complete drying. Product residues on stencils and utensils should be removed or cleaned as soon as possible. For efficient cleaning the solvent free Cleaner Concentrate 6953 is recommended. To remove cured lacquer residues the solvent-based Cleaner 6614 is suitable.
Shelf Life	Allow lacquer as well as Crosslinker ATM WB to adjust to room temperature in the closed container before use. The shelf life stated on the label assures the quality of the products. It refers to unopened original cans stored in a dry place at temperatures between 5 °C (40 °F) and 25 °C (75 °F). Please protect against freezing!

Important

Printing results, to a large extent, depend on the substrate, the ink layers to be overprinted, as well as the printing and application conditions. We recommend checking your printing materials under your conditions of use prior to any production runs. Materials that are supposed to be identical may vary from manufacturer to manufacturer and even from batch to batch. Substrates or ink layers may have been treated with or can contain sliding agents, antistatics or other additives which will impair the adhesion of the lacquer.

This is a test product which is still in development. For this reason, no assurances are currently given as to type conformity, processability and long-term performance characteristics. Therefore, the customer uses the product entirely at his own risk with no guarantee.

Before starting a production run, it is necessary to test samples of each newly designed part systematically with regard to the specifications for the intended use (e. g. climatic chamber, resistance, etc.).

The information contained in the technical information/instruction sheets or other product information sheets is based on product testing conducted by Pröll. Because printing and environmental factors critically affect each individual ink application, the above mentioned information and instructions represent only general recommendations concerning product characteristics and directions for use and should not be construed as representing express warranties regarding the product. The information and instructions in no way release the purchaser from his obligation to verify and test the inks and their application for the specific request, regarding: product characteristics, weather resistance, mixing proportions, gloss, thinning, special mixtures, printability, drying speed, cleaning, effects on or of other materials to be contacted and safety precautions. All details contained in the instruction sheet "General Information on Screen Printing Inks" are to be considered. The further manufacture and use of products containing our inks by the purchaser takes place beyond our control, and the responsibility for further application and use of our product resides solely with the purchaser. Pröll disclaims any warranties, express or implied.

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