

Technical Information

60.C.012 | Water-based Liquid Systems | Coatings, Lacquers, Varnishes, Primers



ACRYLAC®

SILK MATT 57M2000

Water-based coating

Application

For wet-on-dry and wet-on-wet coating in sheet-fed offset presses with coating unit.
Recommended drying equipment: hot-air blower and extraction unit.
Recommended application rate: 4 – 6 g/m² (wet).
Stack temperatures in excess of 35 °C can cause blocking.

Substrate

Paper / board

Special properties

Silk matt finish
Fast drying speed
Suitable for double-sided coating
Very good rub resistance
(Please also take note of the section „Special instructions“ on page 2)

ACRYLAC SILK MATT 57M2000	
Viscosity / draining time in s ¹⁾	approx. 40 s
pH-value	7.5 – 8.5
Density	approx. 1.05 g / cm ³
Heat-sealing resistance ²⁾	
Two layers of PP film	very good
Acrylate-coated films	not suitable
Thinner	Water

1) As-delivered viscosity at 20° C, well stirred (draining time per DIN 53211, 4-mm Ø nozzles)

2) Test conditions: 130° C, 1s; 0,5 bar (tested using heat-sealing unit from Bugger)

Test material: coated cellulose board, preprinted with oxidative-drying ink and coated with **ACRYLAC SILK MATT 57M2000**

The values cited are typical values. They can be seen as guidelines, but not as specifications.

Cleaning

We recommend you use Cleaner 10T0145 to clean rollers, rubber blankets, forme cylinders, etc. (see the instructions for use and Technical Information “10T0145 Cleaner for water-based inks and coatings”). To achieve a consistent print result, we recommend you regularly perform a thorough wash-up of all rollers when using screen rollers.

Auxiliaries

Various auxiliaries are available to help you apply the water-based coating:

- Retarder/ Anticrazing Agent 10MGA0422 see Technical Information about ACRYLAC Auxilliaris
- Defoamer 10MGA0423 see Technical Information about ACRYLAC Auxilliaris

Special instructions

Water-based coatings are generally slightly alkaline. The offset inks used must therefore be alkali-resistant (ISO 2836/5.3). One exception to this is the process ink colour magenta: despite their low level of alkali fastness, these inks can be over-coated with water-based coatings without any problem. We advise against using inks that are not solvent-resistant, because colour shifts may occur under unfavorable conditions.

The coated surfaces can be glued and are suitable for finishing with stamping film (depending on the adhesive, stamping film and processing conditions; you must carry out a test under field conditions beforehand). We recommend leaving out the glue flap.

Heat-sealing resistance and heat resistance depend upon many parameters, which are why we recommend you carry out tests under field conditions in this regard, too.

If there is a possibility of the package contents or external influences (e.g. moisture, detergents, grease, etc.) having potentially negative influences on the print, you must likewise conduct appropriate tests to determine suitability.

Further information can be found in our ACRYLAC User Guide and in Technical Information „Information on ACRYLAC water-based coatings“.

The coating has a shelf life of 6 months from delivery if the container is not opened. After opening the container, the coating should be used up as quickly as possible.

The water-based coating must be stored in its original container in a dry, cool but frost-free place.

Storage temperatures higher than 30 °C have the negative effect of causing the coating to thicken and must therefore be avoided.

Stir well before use.

Information about printing food packaging

This water-based coating is not specifically formulated to ensure low migration. For this reason, we recommend this coating for manufacturing food packaging only if the transfer of constituents from the coating film to the foodstuff (by means of migration or invisible set-off) can be ruled out owing to the composition of the packaging and the processing conditions.

If this is not the case, we recommend that you use our specially formulated, low-migration **ACRYLAC-MGA** water-based coatings.

For further information, please consult EuPIA customer information leaflet „*Printing Inks for Food packaging*“, and the **huber**group statement „*Note regarding the use of standard inks and varnishes for the manufacture of food packaging*“.

Labelling

MSDS is available upon request. Please refer to the contact of your local supplier.

How supplied

25-kg plastic canisters
150-kg plastic containers
600-kg plastic containers

Contact addresses for advice and further information can be found under www.hubergroup.com
This Technical information sheet reflects the current state of our knowledge. It is designed to inform and advise. We assume no liability for correctness. Modifications may be made in the interest of technical improvement.