

ACRYLAC® Heatresist Gloss 57S1106

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.

Stack temperatures in excess of 35 °C can cause blocking.

Substrate

Paper / board

Special properties

Good gloss, fast drying, excellent wet-blocking resistance and excellent heat resistance (short-term up to 250 °C, depending on the conditions)

(Please also note section entitled „Special instructions“ on page 2)

57S1106	
Viscosity / draining time in s ¹⁾	approx. 40 s
pH	8.5 - 9.5
Density	approx. 1.05 g/cm ³
Double-sided printing	yes
Heat-sealing resistance, uncoated PP film ²⁾ (Acrylat-coated films are not suitable)	excellent
Rub resistance	excellent
Application rate, wet ³⁾	4 - 8 g/m ²
Thinner	Water

1) As-delivered viscosity at 20 °C, well stirred (draining time per DIN 53 211, 4-mm Ø nozzle)

2) Test conditions: 130 °C, 1s ; 0,5 bar (tested using heat-sealing unit from Brugger)
Test material: coated cellulose board, preprinted with oxidative-drying ink

3) depending on application process, substrate and ink coverage

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

Cleaning

We recommend you use ACRYLAC®Cleaner 10 T 0045 to clean rollers, rubber blankets, forme cylinders, etc. (see the instructions for use and Technical Information sheet 10.9.01).

To achieve a consistent print result, we recommend you regularly perform a thorough washup of all rollers when using screen rollers.

Auxiliaries

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

ACRYLAC® -Cleaner 10 T 0045	- see Technical Information sheet 10.9.01
Retarder/ Anticrazing Agent 10 T 0422	- see Technical Information sheet 10.9.03
Defoamer 10 T 0423	- see Technical Information sheet 10.9.03

Special instructions

Water-based coatings are generally slightly alkaline. The offset inks used must therefore be alkali-resistant (DIN 16524, Part 2). One exception to this is the process ink colour magenta: despite their low level of alkali fastness, these inks can be overcoated with water-based coatings without any problem. We advise against using inks that are not solvent-resistant, because colour shifts may occur under unfavourable conditions.

The coated surfaces are conditionally suitable for gluing and 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 sparing out the glue flab.

Heat-sealing resistance and heat resistance depend upon many parameters, which is 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 sheet 20.5.01 entitled „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*“, the **hubergroup** statement „*Note regarding the use of standard inks and varnishes for the manufacture of food packaging*“ and/or our website **www.futurepack.de**.

Labelling

Safety data sheet available on request

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.de**

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.