



ACRYLAC[®] Extra Print

57 0835/05

Water-based emulsion coating

Application

For wet-on-dry and wet-on-wet coating from the inking unit of sheet-fed offset presses.

Recommended drying assistance: hot air and mild use of IR radiation

Substrate

Paper/board (not suitable for non-absorbent substrates)

Special properties

Non-yellowing and low-odour. Good gloss and good rub resistance.

Not suitable for double-sided printing.

(Please also note sections entitled „Application instructions“ and „Special instructions“ on page 2/3.)

Specifications

	57 0835/05
Viscosity ¹⁾	approx. 2500 mPas
pH	7.4 - 8.4
Density	1.02 g/ml
Double-sided printing	no
Heat-sealing resistance, uncoated PP film ²⁾ (Acrylate-coated films are not suitable)	good
Rub resistance	good
Application rate, wet ³⁾	1.3 - 1.8 g/m ²
Thinner	Water

1) As-delivered viscosity at 20 °C, well stirred

2) Test conditions: 130 °C, 1 s; 0.5 bar / coated cellulose board, preprinted with oxidative-drying ink

3) depending on applications process, substrate and ink coverage

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).

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
Wetting Agent / Thickener 10 T 0690	- see Technical Information sheet 10.9.03

Application instructions

Printers who are used to working with oil-based varnishes must take into account the fact that ACRYLAC® EXTRA Print 57 0835/05 is a comparatively fast-drying product.

When working with this coating, the press must not stand still for more than just a few minutes because the coating will otherwise start to dry and pile on the rollers and blanket.

During startup and short stops that last a few minutes, we recommend you spray Retarder 10 T 0422 onto the inking rollers in particular (using a spray bottle). That said, do not spray on too much retarder because this slows down drying of the coating.

If the press is to be stopped for a longer period, the rollers, plate and blanket must be washed immediately with water.

Due to the fact ACRYLAC® EXTRA Print 57 0835/05 is a water-miscible system, you must not use fountain solution.

Before coating, you must clean the inking unit and ink duct thoroughly to remove all ink residues. We recommend you use a commercially available washup solution.

If you come up against stubborn deposits on the rollers, you can use Lime-X 10 T 0100 to remove them (see also TI 10.9.05).

We highly recommend that lateral distribution of the ink should be reduced to a minimum. Ink duct dividers at the sides of the ink duct are useful.

Points at which no coating is applied must as far as possible be kept free of coating in order to prevent piling. This can be done by placing a trimmed sheet that is approx. 0.5 cm smaller than the print format underneath the blanket. You may have to consider using a letterpress plate.

Due to the low application rate, the coating is only conditionally suitable for spot coating by means of the blanket.

When you pour ACRYLAC® EXTRA Print 57 0835/05 into the ink duct, the ink zone keys on the inking unit must be almost fully closed. Sheet guidance and the four-colour set must already have been set up when the coating is added. Setup involves opening the ink zone keys wide because the coating application rate must be as high as possible in order to prevent piling. The coating should feel wet on the sheet and not just tacky.

If you start with too low a coating delivery setting, the first few sheets will stick to the blanket. If this happens, you must wash the blanket immediately with water.

Once the first few sheets have been printed, you can then reset the ink zone keys to the normal coating delivery setting. There is no need to worry about the coating beginning to dry in the ink duct.

Whenever the press has been idle, you should wash the blanket and plate and spray them both with Retarder 10 T 0422.

Whenever you work with ACRYLAC® EXTRA Print 57 0835/05, you may only wash the press components using water or water to which you have added ACRYLAC Cleaner 10 T 0045.

Cleaners such as those used for oil-based inks are not suitable.

When changing from ACRYLAC® EXTRA Print 57 0835/05 to printing ink, the inking unit must be cleaned extremely thoroughly.

You should only use starch powder for anti-setoff spraying.

The stack temperature should not exceed 30 °C.

Special instructions

Water-based emulsion coatings are generally slightly alkaline. The offset inks used must be solvent- and alkali-resistant (DIN 16 524, 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 emulsion coatings without any problem.

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).

Heat-sealing resistance and heat resistance depend upon many parameters, In addition to the application time, the pressure and the material of the tool being used, the heat resistance property of the print product is also influenced by the substrate, the ink, the drying characteristics of the ink and the residual moisture content,

which is why we recommend you carry out tests under field conditions in this regard.

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.

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 emulsion 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.

The product is not considered a hazardous substance within the meaning of current EU legislation. Safety Data Sheet available on request.

Use on food packaging:

The following requirements apply in relation to food and consumables packaging:

- avoidance of organoleptic changes (changes of odour and taste) to the package contents
- migration must remain within the set limits and
- there must be no change in the colour of the package contents.

Migration and invisible set-off must be prevented by arranging for suitable processing conditions and selecting a substrate or primary packaging with adequate barrier properties.

If the substrate used to make the packaging does not act as an adequate barrier, there is a possibility of substances migrating from the packaging to its contents. In this case, we recommend you use our low-migration MGA-ACRYLAC® water-based emulsion coatings (can only be applied via a separate coating unit).

The coatings must not come into direct contact with the packaged foodstuffs.

More information on the subject of food and consumables packaging can be found in the information sheet entitled „Druckfarben für Lebensmittelverpackungen“ (Printing inks for food packaging) published by the German Printing Ink Manufacturers' Association.

How supplied

10-kg plastic pails

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.