



TECHNICAL DATA SHEET

WATERBASED COATINGS

AL5039-40

AQUALINE MATT SEALER

- ◆ A fast drying premium emulsion, exhibiting a very matt finish.
- ◆ Formulated as a double sided emulsion.
- ◆ Excellent levels of rub resistance and press stability.
- ◆ Low foaming so suitable for aggressive pumps and anilox systems.

TECHNICAL CHARACTERISTICS:

Viscosity (DIN 4 @ 20°C)	35-45 Seconds
PH	7.8-8.2
Solids	38-42%
Gloss (Sheen @ 60° on Gloss Art)	5-20
Drying Speed	Medium - Fast
Rub Resistance	Good
Slip Values	Medium
Heat Resistance	140°C.

AL5039-40 is suitable for use in the carton, commercial and magazine sectors, and is recommended for food work if contact is indirect. AL5039-40 is not suitable for direct food contact. For further technical details, please consult the 'Health and Safety' data sheets.

APPLICATION CHARACTERISTICS

Single/Double Sided	Double
Recommended Minimum back up time	90 minutes
Minimum Substrate Grammage	80 gsm
Glueable	Yes
Foil Blockable	Yes
UV Varnishable	Yes
Recommended film weight	2-4 gsm wet

AL5039-40 is suitable for application via the majority of in-line coaters on Heidelbergs, Komori's, Mitsubishi, Roland, KBA, Ryobi, etc... Application can be via conventional three roller methods or enclosed chamber anilox systems.

GENERAL TECHNICAL DETAILS:

AL5039-40 has been formulated to provide a streak free finish, whilst possessing suitable re-solubility characteristics making it recommended for double sided work and turn applications.

Back up times will depend however on substrate type, ink film weight and press conditions, although it is recommended that printed material has been left to set for at least 90 minutes prior to re-working.

AL5039-40 is suitable with testing for subsequent finishing operations such as foil blocking, gluing, lamination and UV varnishing. Certain recommendations will need to be followed if UV varnishing - please contact the laboratory for further information.

AL5039-40 has been formulated to provide excellent low curl and distortion characteristics. For this reason, AL5039-40 can be employed as a sealer for light weight substrates. To reduce curl further, ensure paper has been suitably conditioned, and that press extraction is functioning.

Optimum drying conditions would include the use of hot air knives, and IR lamps. IR lamps should be kept to a minimum, with direct stack temperatures not falling below 27°C or rise above 34°C. For short runs, stack temperatures may not reach the optimum figures, and this must be considered if attempting to back up work rapidly.

Light application of a middle grade spray powder is recommended.

STORAGE AND HANDLING:

Waterbased emulsions should not be exposed to temperatures below 5°C or above 35°C. During cold months, it is recommended that containers are kept off of cold floors and stored on pallets. The Pulse Printing Products range of 'AquaLine' emulsions have a 12 month shelf life - if unopened and stored in the correct conditions. Manufacture date is available on the label.

Waterbased emulsions are non hazardous and require no special storage or labelling.

DISCLAIMER:

The information contained in this product data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the optimum use of the named product and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.