



TECHNICAL DATA SHEET

WATERBASED COATINGS

AL231-45

AQUALINE HIGH GLOSS EMULSION

- ◆ A high gloss emulsion suitable for double sided application.
- ◆ Good drying and excellent rub resistance provides maximum press speed potential with minimum transfer times between print and finishing.

TECHNICAL CHARACTERISTICS:

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|----------------------------------|-----------------------------|
| Viscosity (DIN 4 @ 20°C) | 43-48 Seconds |
| PH | 7.8-8.2 |
| Solids | 38-42% |
| Gloss (Sheen @ 60° on Gloss Art) | 70-75 |
| Drying Speed | Medium - Fast |
| Rub Resistance | Good |
| Slip Values | Static - 0.40. Dynamic 0.30 |
| Heat Resistance | 140°C. |

AL231-45 is suitable for use in the carton, commercial and magazine sectors, and is recommended for food work if contact is indirect. AL231-45 is not suitable for direct food contact. AL231-45 is also suitable for use on toy packaging and certain school materials. For further technical details, please consult the 'Health and Safety' data sheets.

APPLICATION CHARACTERISTICS

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| Single/Double Sided | Double |
| Recommended Minimum back up time | 120 minutes |
| Minimum Substrate Grammage | 115 gsm |
| Glueable | Yes |
| Foil Blockable | Yes |
| UV Varnishable | Yes |
| Recommended film weight | 3-5gsm wet |

AL231-45 is suitable for application via the majority of in-line coaters on Heidelberg's, Komori's, Mitsubishi, Roland, KBA, Ryobi, etc... Application can be via conventional three roller methods or new technology enclosed chamber anilox systems.

GENERAL TECHNICAL DETAILS:

AL231-45 has been formulated to provide a high gloss 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 120 minutes prior to re-working.

AL231-45 does not contain any detrimental surface tension modifiers, and is therefore suitable 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.

AL231-45 is not suitable for application to substrates below 115gsm. Lower grammage stocks may exhibit distortion or curl.

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.