

TECHNICAL DATA SHEET

UV CURABLE ADHESIVES

DESCRIPTION UV curable adhesives and deadeners for general purpose use including labels and packaging. Offering fast drying speed and very good resistance properties.

PROPERTIES Fast cure
Low viscosity
Very good chemical and product resistance
Very good water resistance
Good adhesion

All items on this list are Benzophenone, MBP, OHBP, BDK, ITX-free

Optimal cure and resistance properties will be seen 24 hours after printing

Unless the printed layer is a barrier to migration and there is no possibility of set off to the unprinted (food contact) surface, **standard adhesives and deadeners are not intended for food packaging specifications.**

For applications where the material is not a barrier, or set off is possible, we recommend the use of Low Migration inks & varnishes (see list). Contact us for further details.
It must also be mentioned that the Printer/Converter and Packer/ Filler has legal responsibility to ensure compliance with the relevant legislation for food packaging.

SUBSTRATES Coated paper and board
Top coated thermal paper
Treated/primed polyethylene
Treated/primed polypropylene
Aluminium foils
Polyester, PVC

Other materials after testing.

Please ask our laboratory, and/or send material samples, for more detailed advice and recommendations. Due to the wide range of coatings used on laminate films and substrates, it is strongly recommended that samples of both are supplied to the laboratory for testing, so that the best adhesive can be recommended.



APPLICATION

General: -

Stir well before use

Rollers EPDM

UV lamps minimum 80 w/cm

1. **UV Laminating Adhesives: -**
 - Anilox 120-160 l/cm, 4-8 volume
 - **NB** - This is a post-cure laminating adhesive. The adhesive is applied to the substrate, and the substrate and laminate are nipped together **before** curing.
2. **UV Adhesive Deadeners: -**
 - Anilox 120–160 l/cm, 4-8 volume
3. **UV Cold Foil Adhesives: -**
 - Anilox 100-180 l/cm, 6-12 volume
 - Nip pressure 20-60 psi (2-6 bar)
 - Hard rubber nip roller (durometer 85 shore A or greater) required
 - **NB** - This is a post-cure cold foil adhesive. The adhesive is applied to the substrate, and the substrate and foil are nipped together **before** curing.
4. **UV Pressure Sensitive Adhesives: -**
 - Common film weight 15 - 30 gsm is used (60-100 volume)
 - Can be applied by flexo, screen, roller or slot nozzle devices
 - This is a pre-cure adhesive. High tack and good adhesion values have been shown with 20gsm film weight, 240 Watt/cm lamps, and 20m/min press speed.

RANGE

		Standard	Premium
UV Flexo	Laminating Adhesive [‡]	EL325	EL049
UV Flexo	Laminating Adhesive High Viscosity [‡]	EL316	
UV Flexo	Laminating Adhesive OB [‡]	EL310	EL030
UV Flexo	Laminating Adhesive Hi-OB [‡]	EL320	
UV Flexo	Adhesive Deadener	EL242	EL218
UV Flexo	Adhesive Deadener OB	EL261	
UV Flexo	Cold Foil Adhesive	EL045	EL037
UV Flexo / UV Screen	Pressure Sensitive Adhesive	UVPSA002	

[‡] Due to the wide range of coatings used on laminate films and substrates, it is strongly recommended that samples of both are supplied to the laboratory for testing, so that the best adhesive can be recommended.

Other lower odour and migration adhesives are available – please ask the lab for details

Separate data sheets may be available for more detailed information.

STORAGE & HANDLING

Store at temperatures between 5⁰C and 25⁰C.

Protect from sunlight and frost.

In unopened containers, these items have a shelf life of 12 months.



**AUXILIARY
PRODUCTS**

RLA313 UV Thinner/Reducer (add up to 5% as required)
RLA379 UV Defoamer (Silicone-free) (add up to 1% maximum)
RLA350 UV Wash-up

DISCLAIMER

The information contained in this data sheet is correct to the best of our knowledge. It is intended as a guide only for the optimum use of the named product(s) and is not intended as a warranty or as a specification. This datasheet may not be suitable for combinations with other materials or in processes other than those specifically described. The user should always make their own tests to establish that the product(s) meets their requirements.