SunCure® 14LM159

Low Migration UV Curable Gloss Stampable Coating

1. Description

SunCure® 14LM159 is a high performance, UV curable, low migration foil stampable coating designed for printing of non-food contact surfaces of primary or primary outer wrap food packaging where a risk of migration has been identified.

2. Product features

- End-of-press coater applied on Sheetfed, Web Offset and Narrow Web presses
- High gloss, foil stampable with good rub resistance and slip properties
- Adhesion to a wide range of substrates including carton board and appropriately selected plastics and flexible packaging films, foils and label substrates
- Lowest migration potential, as certified by independent laboratories
- Excellent taint and odour properties
- Manufactured only from substances listed in Annex 2 and Annex 10 of the Swiss Packaging Inks Ordinance *

3. Product Suitability

3.1 Applications

SunCure® 14LM159 **is** intended for use in the following areas:

- Primary and primary outer wrap food packaging
- Outer wrap pharmaceutical packaging and packaging for other sensitive applications
- Appropriately selected grades of paper and board, selected flexible packaging films and a range of self-adhesive label substrates
- Microwave (no susceptor) and ovenable** applications, subject to time and temperature control

SunCure® 14LM159 is **not** suitable for use in the following areas:

- Direct food contact

Printers should assure themselves that use of this product on food packaging has been fully assessed for risk and that the packaging produced meets regulatory requirements for the intended end use. Whilst SunCure® 14LM159 is versatile in performance, it may not be suitable if used outside the above described applications and trials should be made before starting any commercial print run. If in doubt, please discuss suitability with your local Sun Chemical representative.

** Ordinance of the Federal Department of the Interior (DFI) on materials and articles intended to come into contact with food (RO 2016) Section 12 Printing Inks (Annex 10 edition 1.0)*
*** Not exceeding 200ºC and not for in excess of 30 minutes*

4. Safety and Handling Information

Please refer to the product Safety Data Sheet for specific information on composition, hazard properties and handling requirements.

5. Appendix

5.1 Sales Specification

Product Properties [1]	Test Method Number	Typical Values
Comparative Gloss	817	As Master Standard
Viscosity (Brookfield 25°C)	800	2.0 - 3.0 poise
UV Cure (Comparative)	795	As Master Standard
Static Slip [2]	821	0.20 – 0.30
Kinetic Slip [2]	821	0.15 – 0.25

5.2 Application Data

Print Process	Anilox coater or roller coating device, stir before use
Film Weight [3]	2.0 to 3.5 g/m [2], depending on requirements
Wash-Up Solvent	OEM accredited UV wash
Substrates [4]	Coated papers, boards and selected plastics and foils. 14LM159 is not recommended for use on substrates that are highly absorbent or have no top coating

5.3 Compatibility

Inks	This product is suitable for in-line or off-line printing over UV offset or UV flexo inks. It can also be used over other ink systems that are dry before application and designed to be suitable with UV coating, however trials are recommended
Hot Foil Stamping/Blocking	Suitable, test before commencing a full commercial print run
Gluability	Suitable, test before commencing a full commercial print run
Imprintability	Suitable, test before commencing a full commercial print run

5.4 Notes

[1] Test methods available on request

[2] Tested on Incada Excel board, values for guidance only. The responsibility rests with the user to establish the conditions under which the slip is considered satisfactory and subsequently monitored and controlled during printing. Slip and cure are affected by multiple factors beyond the control of Sun Chemical including press speed, UV exposure, film weight, substrate and the types and formats of the ink beneath

[3] The film weight recommendation is based on averaging of historical information from application equipment typically used to print this type of coating

[4] While this product is designed for coated paper and board, it will also work on selected plastics and foils, but trials should be undertaken before use to ensure all properties are acceptable to the customer

[5] 14LM159 is stable for 2 years when stored in its original container at temperatures between 5℃ and 25℃, away from direct sunlight. Correctly stored material may be usable after this time but should be checked before use. Coating that is contaminated during the printing process should not be returned to the original container or properties and stability may be affected

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