SunCure[®] 14LM391

Ultra Matt Low Migration UV Curable Coating

1. Description

SunCure 14LM391 is a high performance, low migration UV curable matt finish coating, designed for printing of non-food contact surfaces of primary or primary outer wrap food and sensitive goods 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
- Matt finish with excellent cure and good rub resistance 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*
- Complies with Nestlé** criteria for the production of their packaging
- Formulated without materials based on Bisphenol A and thus suitable for printing packaging to comply with the French regulatory requirements on Bisphenol A*

3. Product Suitability

3.1 Application Information

SunCure 14LM391 is intended for use in the following areas:

- o Paper and carton board printing, and appropriately selected plastics
- Primary packaging for food and sensitive goods
- Primary outer wrap packaging (also known as indirect packaging) for food and sensitive goods
- Subject to testing, microwave (no susceptor) and ovenable**** applications

SunCure 14LM391 is not suitable for use in the following areas:

o Direct food contact

Printers should assure themselves that use of this product for food packaging has been fully assessed for risk and the packaging so produced meets regulatory requirements for its intended end use. Whilst SunCure 14LM391 is versatile in application, it may not be suitable if used outside the above defined applications. If in doubt, please check 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)

** Nestlé – "Guidance Note on Packaging Inks" version August 2016.

*** LOI n° 2012-1442 du 24 décembre 2012 visant à la suspension de la fabrication, de l'importation, de l'exportation et de la mise sur le marché de tout conditionnement à vocation alimentaire contenant du bisphénol A

**** Not exceeding 200°C and not for in excess of 30 minutes

4. Safety and Handling Information

Energy Curing Products such as 14LM391 are reactive systems and can cause skin and/or eye irritation if handled incorrectly. Please refer to the product Safety Data Sheet for more specific information.

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5. Appendix

5.1 Sales Specification

| Product Properties ¹ | Test Number | Typical Values |
|---------------------------------|-------------|--------------------|
| Viscosity | 800 | 4.5 – 5.5 Poise |
| Dispersion | 34 | <10 microns |
| UV Cure (Comparative) | 795 | As Master Standard |

5.2 Application Data

| Application | Anilox metered or end-of-press roller coater, stir before use | |
|-------------------------|---|--|
| Application Guidance | Typical applied film weight 1.5 - 3.0 gm ⁻² | |
| Wash-Up Solvent | OEM accredited UV wash | |
| Substrates ² | Carton board, paper, appropriately selected plastics | |

5.3 Compatibility

| Inks ³ | 14LM391 is suitable for in-line or off-line printing over UV offset 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, check before use | |
| Gluability | Suitable, check before use | |
| Imprintability | Suitable, check before use | |

5.4 Notes

Acceptable technical performance is dependent on the application of Good Manufacturing Practice, the press/coater being fitted for use with UV curable products, and adequate cure. Choice and control of film weight, curing and substrate are printer technical requirements for which Sun Chemical cannot accept responsibility.

¹ Test methods available on request

² Substrates vary in ink and coating receptivity, absorption and surface integrity. Highly absorbent substrates should be tested to ensure ink and coating cure and performance properties are satisfactory before printing.

³ Information on compatibility is based on widespread successful use of this product but it is always best to test print performance and confirm it to be satisfactory before committing to a commercial print run.

⁴ 14LM391 is stable for 12 months when stored in its original container at temperatures between 5°C and 25°C, away from direct sunlight. Correctly stored material may be usable after this time but should be checked before use.



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