SunCure Matt Finish Low Migration UV Curable Coating 13LM391

1. Description

SunCure 13LM391 is a high performance, low migration UV curable matt finish coating, designed for printing of non-food contact surfaces of primary outer wrap food and sensitive goods packaging where a risk of migration has been identified, non-food and commercial printing and, subject to substrate selection, a range of narrow web applications.

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
- Excellent taint and odour properties
- Manufactured only from substances listed in Annex 1 and Annex 6 of the Swiss Packaging Inks Ordinance*
- Meets Nestlé** criteria for the production of their packaging

3. Product Suitability

3.1 Application Information

SunCure 13LM391 is intended for use in the following areas:

- Paper and carton board printing, and appropriately selected plastics
- Primary outer wrap packaging (also known as indirect packaging) for food and sensitive goods
- Subject to testing, narrow web label and film printing applications, when used on appropriately selected substrates
- Commercial printing and non-food packaging applications

SunCure 13LM391 is not suitable for use in the following areas:

- 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 13LM391 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 Home Affairs (FDHA) on Materials and Articles (817.023.21) Section 8b:Packaging Inks (Annex 6 revision 25.11.09)*

***Nestlé – "Guidance Note on Packaging Inks" 2.02.2012*

4. Safety and Handling Information

Energy Curing Products such as 13LM391 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.

Sales Specification:

Product Properties[1]	Test Number	Typical Values
Viscosity	802	4.0 – 6.0 poise
Dispersion	801	< 2 NP
Slip - Kinetic	828	0.20 – 0.35
Slip - Static	829	0.20 – 0.35
Gloss	822	As Master Standard
UV Cure (Comparative)	820	As Master Standard

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

Compatibility:

Inks[3]	13LM391 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

Notes:

Acceptable technical performance is dependant 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 can not 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] 13LM391 is stable for 2 years 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.