SunCure® 14HC351 UV Curable Matt Coating

1. Description

SunCure® 14HC351 is a high performance, UV curable, matt finish coating designed for overprinting for commercial print, non-food packaging and, subject to choice of substrate, for narrow web label printing.

2. Product Features

- End-of-press coater applied on Sheetfed, Web Offset, Narrow Web presses and Off-line roller coaters
- Matt finish with good rub resistance and slip properties
- Foil stampable with appropriately selected foils and conditions for foiling
- Adhesion to a wide range of substrates including carton board and appropriately selected plastics, foils and label substrates
- Does not contain benzophenone, 4-methyl benzophenone, 4-hydroxybenzophenone or ITX but is NOT a low migration formulation

3. Product Suitability

3.1 Applications

SunCure® 14HC351 **is** intended for use in the following areas:

- Commercial print applications including, book, catalogue and magazine covers, CD/DVD covers, etc…
- Outer wrap packaging for luxury goods, liquor cartons and non-food products
- Appropriately selected grades of paper and board, foil board and self-adhesive label substrates
- ONLY suitable for use on food packaging if the packaged goods are retained within an absolute or proven functional barrier to migration, and there is no risk of migration by other means. Examples of absolute barriers include glass, metal, pouches containing a continuous layer of aluminium (>30 microns) and specially treated films and foils

SunCure® 14HC351 is **not** suitable for use in the following areas:

- Primary packaging for food, or primary outer wrap packaging for food where the goods are retained within a material that is not a barrier to migration or has unknown barrier properties
- Applications where taint and odour are critical
- Direct food contact

Printers should assure themselves that use of this product on packaging for food and sensitive goods has been fully assessed for risk and that the packaging produced meets regulatory requirements for the intended end use. Whilst SunCure® 14HC351 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.

4.1 Safety and Handling Information

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

working for you.

Sales Specification:

Product Properties[1]	Test Method Number	Typical Values
Comparative Gloss	817	As Master Standard
Viscosity (Brookfield 25°C)	800	1.3 – 2.0 poise
UV Cure (Comparative)	795	As Master Standard
Static Slip[2]	821	0.20 – 0.50
Kinetic Slip[2]	821	0.10 – 0.40

Application Data:

Print Process	Anilox coater or roller coating device, stir before use
Film Weight[3]	2.0 to 4.0 g/m^2, depending on requirements
Wash-Up Solvent	OEM accredited UV wash
Substrates[4]	Coated papers, boards and appropriately selected plastics and foils. 14HC351 is not recommended for use on substrates that are highly absorbent or have no top coating

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	With care, check before proceeding to a commercial run
Gluability	With care, check before proceeding to a commercial run
Imprintability	With care, check before proceeding to a commercial run

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] 14HC351 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. Coating that is contaminated during the printing process should not be returned to the original container or properties and stability may be affected