

SunCure® 10HC171

UV Litho Gloss Stampable Coating

1. Description

SunCure® 10HC171 is a high performance, UV curable, high gloss litho varnish designed as a sealer for commercial print and non-food packaging applications.

2. Product features

- Through duct application on Sheetfed, Web Offset and Narrow Web presses
- Litho, letterpress and dry offset printing
- High gloss, with good rub resistance and slip properties
- Foil stampable, with appropriately selected foils and foiling conditions
- Adhesion to a wide range of paper, board and appropriately selected synthetic substrates
- Formulated without the use of benzophenone, 4-methylbenzophenone, 4-hydroxybenzophenone or ITX but is NOT a low migration product

3. Product Suitability

3.1 Applications

SunCure® 10HC171 is intended for use in the following areas:

- Commercial print applications including, book, catalogue, magazine and CD/DVD covers, etc...
- Outer wrap packaging for luxury goods and non-food products
- Appropriately selected grades of paper and board, foil board and self-adhesive label substrates
- In-line over wet or over dry UV inks, and appropriately selected dry conventional inks

SunCure® 10HC171 is **not** suitable for use in the following areas:

- Not recommended for food packaging applications
- Applications where taint and odour are critical
- Applications requiring adhesion to plastic 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. Printers should assure themselves that, if 10HC171 is used on food packaging, the packaging has been fully assessed for risk and meets regulatory requirements for the intended end use.

Whilst SunCure® 10HC171 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. 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 Number	Typical Values
Comparative Gloss	817	As Master Standard
Viscosity (Brookfield 25°C)	794	65-75 poise
UV Cure (Comparative)	795	As Master Standard

5.2 Application Data

Print Process	Litho, dry offset or letterpress
Film Weight³	1.5 to 2.0 g/m ² , depending on requirements
Wash-Up Solvent	OEM accredited UV wash
Substrates⁴	Coated papers, boards and appropriately selected synthetic substrates. 10HC171 is not recommended for use on plastics or 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	With care, check before proceeding
Gluability	With care, check before proceeding
Imprintability	With care, check before proceeding

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 10HC171 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

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