

SunCure® 44HC189

UV Curable Gloss Coating

1. Description

SunCure® 44HC189 is a high performance, UV curable, release coating designed for use on “piggy-back” labels.

2. Product features

- End-of-press coater applied on Sheetfed, Web Offset and Narrow Web presses
- High gloss and rub resistance with good slip properties, must be stirred before use
- Good release properties, dependant on full cure and appropriate applied film weight
- Adhesion to a wide range of substrates including carton board and appropriately selected synthetic substrates
- Contains benzophenone and substituted benzophenone, NOT a low migration product

3. Product Suitability

3.1 Applications

SunCure® 44HC189 **is** intended for use in the following areas:

- As a release coating for printed “piggy-back” labels
- Commercial print applications including, book, catalogue and magazine covers, 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

SunCure® 44HC189 **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, or for direct food contact
- Highly absorbent substrates, as coating components may absorb leading to poor cure, odour, yellowing and poor release properties. Absorbent substrates should be sealed before coating.
- Applications requiring adhesion to plastic substrates

This coating is not designed or intended for food packaging applications. Printers should assure themselves that use of this product on any type of food packaging has been fully assessed for risk and that the packaging produced meets regulatory requirements for the intended end use. Whilst SunCure® 44HC189 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)	799	5.0 – 8.0 poise
UV Cure (Comparative)	795	As Master Standard
Static Slip ²	821	0.05 – 0.15
Kinetic Slip ²	821	0.01 – 0.10

5.2 Application Data

Print Process	Anilox coater or roller coating device, stir before use
Film Weight³	2.0 to 3.5 g/m ² , depending on requirements
Wash-Up Solvent	OEM accredited UV wash
Substrates⁴	Coated papers, boards and appropriately selected synthetic substrates. 14H189 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	Unsuitable, not recommended
Glueability	Unsuitable, not recommended
Imprintability	Unsuitable, not recommended

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 44HC189 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