

SunCure® Additive

UV Offset LM Ink Cure Additive 00HX52

1. Description

00HX52 is a high performance, low migration photo-initiator blend, designed for use as an additive to improve the cure performance of UV curable offset and letterpress inks.

2. Product Features

- 00HX52 is designed for use with UV curing inks, to provide improved cure performance
- Formulated for use as a paste to minimise changes in ink rheology and print performance
- Manufactured only from substances listed in Annex 1 and Annex 6 of the Swiss Packaging Inks Ordinance*
- Formulated using materials listed within the Nestlé "Guidance Note on Printing Inks" 19th April 2010
- Specifically formulated as a low migration formulation, without the use of benzophenone, 4-methylbenzophenone, 4-hydroxybenzophenone and isopropyl thioxanthone.

3. Product Suitability

3.1 Application Information

SunCure Additive 00HX52 is intended for use with inks in the following areas:

- Paper and carton board printing, for food and non-food packaging
- Luxury packaging, such as liquor or cosmetic cartons
- Paper and appropriately selected top coated plastic self-adhesive labels
- Primary packaging for food, where the packaged goods are in prolonged contact with the non-printed side of the packaging, e.g. juice or milk cartons
- Primary outer wrap packaging for food
- Microwave or ovenable applications
- Suitable for use with SunCure® ULM, SunCure® FLM, Suncure® QLM

SunCure Additive 00HX52 is **not** suitable for use in the following areas:

- Direct food contact.

Printers should assure themselves that use of this product with inks intended for food packaging has been fully assessed for risk and the packaging so produced meets regulatory requirements for its intended end use. Whilst SunCure 00HX52 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.

4. Safety and Handling Information

Energy Curing Products such as 00HX52 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.

* 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)

working for you.



Sales Specification:

Product Properties ¹	Test Number	Typical Values
Appearance	381	Off White
Consistency	2	Paste
Dispersion	31	< 2 NP

Application Data:

Application	Low Migration lithographic and letterpress UV inks
Addition Guide ²	1% to 5% (30g to 150g per 3kg container) by weight
Wash-Up Solvent	OEM accredited UV wash
Substrates ³	Carton, paper, plastics and foils

Compatibility:

Inks ⁴	00HX52 is suitable for use up to the recommended maximum addition with UV curable LM and other UV offset and UV letterpress inks intended for plastics, paper and board printing. 00HX52 can be mechanically mixed into the ink in its original container or a clean mixing bowl. It can also be incorporated into the ink in the ink duct, taking care that the mix is fully homogenised before continuing with the print run. The full effect of the addition will take time to feed through the inking system. Please refer to the product Safety Data Sheet for handling information.
Hot Foil Stamping/Blocking	Should be unaffected, check before proceeding
Gluability	Should be unaffected, check before proceeding
Imprintability	Should be unaffected, check before proceeding

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 The addition level is supplied as a guide only. Should the maximum addition fail to deliver the desired improvement in cure, please contact our customer technical services team for further advice. Note: exceeding the maximum addition level may lead to other problems such as reduced shelf-life or polymerization and should be avoided.

³ Substrates vary in ink receptivity, absorption and surface integrity. Highly absorbent substrates should be tested to ensure ink and coating cure and performance properties are satisfactory before printing.

⁴ Information on compatibility is based on widespread successful use of this additive but it is always best to test print performance and confirm it to be satisfactory before committing to a commercial print run.

⁵ 00HX52 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.

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