

Sunlase™

SunLase™ Family of Laser Marking Inks

1. Description

SunLase™ W/B Corrugated Ink is a water-based surface print ink suitable for both pre-print and post-print corrugated box applications on Clay Coated Liner substrate, White Top Test Liner substrate and Natural Kraft. It is suitable for printing by the flexographic print process.

2. Product features*

SunLase™ W/B Corrugated Ink:

- Suitable for use with the Laser Imaging process where a Low power CO2 Laser is used.
- Provides a visible colour change from Opaque (white) to Black when Laser marked.
- Heat resistant (when over-lacquered) for pre-print application.
- High degree of rub/scuff resistance

* Specific application performance data, where available, can be provided by your local Sun Chemical representative

3. Product suitability*

3.1. Applications

SunLase™ W/B Corrugated Ink can be used for:

- Printing on Clay coated Liner, White Top and Natural Kraft.
- Corrugated Box end use
- Flexographic printing

* Please refer to your local Sun Chemical representative for specific details.

3.2. Substrates

SunLase™ W/B Corrugated Ink is suitable for the following substrate combinations:

Clay Coated Liner
White Top Test Liner
Natural Kraft



4. Colour Range

SunLase™ W/B Corrugated Ink is available as an opaque (white) finished ink.

This product must not be mixed with any other colourants or pigments.

5. General Handling

5.1. Storage

SunLase™ W/B Corrugated Ink is non-flammable.

Temperature of storage: from 5°C to 25°C.

Do not allow to Freeze-Thaw.

Shelf life: 6 months provided that the container remains tightly sealed.

5.2. Waste disposal

Care should be exercised in the disposal of printing ink waste. This should be carried out in accordance with good industrial practice, observing all the appropriate regulations and guidelines.

For more specific handling advice refer to Safety Data Sheet (SDS).

6. Printing conditions

6.1. Printing viscosities

Inks must be thoroughly stirred and homogeneous before reducing with water. The Laser active components are prone to settlement, particularly when the liquid ink is stored for long periods, and therefore thorough stirring before use is essential. The container must be checked for sediment before use.

The optimum printing viscosity depends on press and running conditions. Good results have been achieved with **SunLase™ W/B Corrugated Ink** at the following viscosities:

-Flexography: 17-20 seconds (Din cup N°4), 26-30 seconds (Zahn #2).

6.2. Reducing solvents

-Water only.

-Do not add other ingredients without discussion with Sun Chemical technical team.



6.3. Wash up solvents

-Water. The ink is supplied with a pH of between 4.5 - 5.5 and therefore requires specific cleaning practices. Clean equipment immediately after use with water.

6.4. Cylinders / Plates

SunLase™ W/B Corrugated Ink is suitable for all types of aniloxes and flexo plates.

7. End-use safety / assumptions

Acceptable technical performance of **SunLase™ W/B Corrugated Ink** is dependant on:

- Control of film weight (recommended anilox volume of 8-14cm³/m², typically applying 6-10gsm dry coating weight)

-Use of Heat resistant over-lacquer for Pre-print application

-Adequate drying on press (to ensure that the print is dry before conversion)

Choice and control of film weight, drying, substrate are printer technical requirements for which the Sun Chemical technical team can provide assistance in the form of suggestions or direct support.

8. Disclaimers

The list of applications, substrates and processes provided in this document is not exhaustive.

Please contact your local Sun Chemical representative for full technical evaluation of your application or process.

The performance of the product and its suitability for the customers' purpose depend on the particular conditions of use and materials being printed. Therefore, any statement provided in this document should not be construed as providing a guarantee of performance in a specific application area. Sun Chemical always recommends that customers carry out a full evaluation of performance and safety-in-use prior to using our products in commercial applications.

