

Date-codeable Coldseal Release Lacquer

1. Description

Date-codeable Coldseal Release Lacquer is a solvent based clear lacquer which has been specifically formulated to accept various types of date coding inks whilst providing release from cold seal adhesives. It can be printed by Flexographic or Gravure print techniques over suitable cold seal ink systems onto corona treated polypropylene substrates.

2. Product Features*

- Accepts both Ink Jet and Flexographically applied data stamping inks.
- Can be printed over Nitrocellulose, Propionate and PVB colours.
- Good release from conventional cold seal adhesives such as S7188.
- Suitable for use on corona treated Co-ex Polypropylene substrates such as MH247, SHD, and SHP where treatment levels are typically between 38 – 42 dynes/cm.

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

3. Product Suitability*

3.1 Applications

Date-codeable Coldseal Release Lacquer is intended for use in the following areas:

- Coldseal snack food packaging.

Date-codeable Coldseal Release Lacquer should not be used for other end uses without prior discussion with your local Sun Chemical representative and is **not** suitable for:

- Reverse print laminated designs.
- Direct food contact
- High temperature applications including microwave or ovenable designs.

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

3.2 Substrates

Date-codeable Coldseal Release Lacquer is suitable for the following substrates:

A wide range of corona treated white polypropylene substrates including MH247, MD447, EWH, SHD, SHP and WSW.

3.3 Adhesives

Date-codeable Coldseal Release Lacquer is designed to give good release from cold seal adhesives such as S7188. Good release is dependant on the film weight of lacquer applied and the choice of cold seal adhesive used. It is recommended that rigorous tests are carried out before commencing any commercial trials. Sun Chemical can provide assistance to confirm suitability however it is recommended that all ink / substrate specifications are tested against appropriate regulatory standards and test methods.

working for you.



4. Colour Range

Date-codeable Coldseal Release Lacquer is supplied as a clear lacquer.

5. General Handling

5.1 Storage

Date-codeable Coldseal Release Lacquer is considered highly flammable. Suitable precautions should be observed to avoid ignition sources. Temperature of storage needs to be kept between 5°C and 35°C to prevent gelling. Shelf life: 6 months under above conditions.

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 the Material Safety Data Sheet (MSDS).

6. Printing Conditions

6.1 Printing Viscosities

All inks and lacquers must be thoroughly stirred and homogeneous before reducing with solvent. The optimum printing viscosity depends on press and running conditions. Good results have been achieved at the following viscosities:

- Rotogravure: 19-21 sec (Zahn cup N°2).
- Flexography: 21-25 sec (Zahn cup N°2).

6.2 Reducing solvents

- Flexography:
 - Normal: 2:1 ethanol / normal Propyl acetate
 - Slow drying: 2:1 n-propanol / normal Propyl acetate
- Rotogravure:
 - Normal: 2:1 ethanol / ethyl acetate
 - Slow drying: 2:1 n-propanol / normal Propyl acetate

6.3 Wash up solvents

Ethanol / Acetate blends in a ratio of approximately 2:1.

6.4 Cylinders / Plates

Date-codeable Coldseal Release Lacquer is suitable for all common types of aniloxes, cylinders (chemical and mechanical engraving).

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Our Products are intended for sale to professional users. The information herein is general information designed to assist customers whether our products are suitable for their applications. All recommendations are made without guarantee, since the application and conditions of use are beyond our control. We recommend that customers satisfy themselves that each product meets their requirements in all respects before commencing a print run. There is no implied warranty of merchantability or fitness for purpose of the product or products described herein. In no event shall Sun Chemical be liable for damages of any nature arising out of the use or reliance upon this information. Modifications of the product for reasons of improvements might be made without further notice.

7. End-use safety

Date-codeable Coldseal Release Lacquer is a solvent based clear lacquer which has been specifically formulated to accept various types of date coding inks whilst providing release from cold seal adhesives.

All Sun Chemical products are formulated to the latest CEPE/EuPIA guidelines. This excludes the use of carcinogenic, mutagenic and toxic for reproduction (CMR 1 and 2) or labelled (T) according to the Dangerous Substances Directive 67/548/EEC, substances classified as very toxic (T+) or toxic (T) and pigments based on compounds of Sb, As, Cd, Cr (VI), Pb, Hg, Se. The use of certain dyes, solvents, plasticisers and miscellaneous materials are also excluded. A copy of the document is available on request.

All Sun Chemical products are designed with end-use safety built-in. Combination of Sun Chemical products with products from other manufacturers may affect the suitability of the Sun Chemical product for specific end uses and/or applications. It is advised that in such circumstances the user undertakes a detailed risk assessment to ensure that safety is not compromised.

Acceptable technical performance of **Date-codeable Coldseal Release Lacquer** is dependent on:

- Control of product application weight (inks coatings and adhesives)
- Adequate drying on press (to ensure that the print is dry before conversion)
- Appropriate packaging design and structure
- Control of any migratable substances within the finished packaging structure
- Suitable adhesive used in accordance with supplier recommendations

The choice and control of substrate, design (including coverage and coat weight), process conditions (e.g. to ensure proper drying) and any materials from other suppliers are printer or converter technical requirements. Sun Chemical's technical team can provide assistance in the form of suggestions or direct support for our products.

Food Packaging: It is the ultimate responsibility of the food packer to ensure packaged food is safe. With regard to potential migration of substances in to the foodstuff from the printed packaging, it is the responsibility of the converter and food packer to ensure that migration does not exceed any permitted regulatory limitations.

To fulfill its responsibility within the supply chain, and following the signing of a legally binding mutual non-disclosure agreement, Sun Chemical will provide details to the customer of any potential migratable components present in its products through the preparation and communication of a 'Statement of Composition'

8. Disclaimers

Date-codeable Coldseal Release Lacquer has not been tested in food applications.

This 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.

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This product is only suitable for use on the non-food-contact side of food packaging provided that it is applied under the relevant Good Manufacturing Practices (GMP) and according to the recommendations of this Technical Data Sheet

The printers, converters and the packer/filler have the legal responsibility to insure that the finished article is fit for the intended purpose(s) and that the ink and coating components do not migrate into the food at levels that exceed legal and industry requirements.

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