

Sunprop HS Label Lacquer NMHR-70-18659

Sunsure™ Family of Overprint Lacquers

1. Description

Sunprop HS Label Lacquer, NMHR-70-18659

is a solvent based lacquer formulated for flexo and gravure printing and designed to improve and give high dynamic slip when applied over a number of suitable solvent based label ink systems.

When over printing Maxiflex, Sunsure or Suintab ink systems the ink and lacquer combination has been developed to give good printability, press performance and taint and odour properties suitable for wrap around glue label application.

2. Product features*

- High slip and slip stability
- Good wet blocking resistance against treated surfaces.
- High heat resistance giving excellent heat seal jaw release
- Good rub resistance.
- Low odour & taint.
- Fast solvent release giving low residual solvent.
- High print speeds.
- TAA free.

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

3. Product suitability *

Substrates

Suitable for the following substrate:

1 Side treated polypropylene Metallised polypropylene* Clear treated polypropylene	Mobil LL247 Mobil MW280 Mobil MB400
<i>*With the use of a suitable primer</i>	

* Please refer to your local SunChemical representative for specific details.

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4. General Handling

4.1. Storage

Sunprop HS Label Lacquer, NSRB-70-18659

is considered to be highly flammable. Suitable precautions should be taken to avoid ignition sources.

Temperature of storage: from 5°C to 35°C

Shelf life: 6 months under above conditions.

4.2. 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).

5. Printing conditions

5.1. Printing viscosities

Inks must thoroughly be stirred and homogeneous before reducing with solvent.

The optimum printing viscosity depends on press and running conditions. Good results have been achieved with this lacquer at the following viscosities:

- Flexography: 21-25 sec Zahn 2.
- Gravure: 18-23 sec Zahn 2.

5.2. Application weights and COF targets

5.2.1. Application weights

- Flexography: 0.8gsm – 1.0gsm.
- Gravure: 1.0gsm – 1.4gsm.

5.2.2. Dynamic COF Targets

- Flexography: 0.22-0.25.
- Gravure: 0.20-0.22.

5.3. Reducing solvents

- For Flexography:
 - Normal: 3:1 ethanol/ethyl acetate
 - Slow: 3:1 n-propanol/n-propyl acetate
- For Gravure:
 - Normal: 1:1 ethanol/ethyl acetate
 - Slow: 1:1 n-propanol/n-propyl acetate

5.4. Wash up solvents

Ethanol / N-Propyl Acetate blends (Ethanol only, is less effective).

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5.5. Plates

This lacquer is alcohol rich and should be suitable for most flexo plates. If there is any doubt tests should be conducted to assess suitability.

6. End-use safety / assumptions

Acceptable technical performance of this lacquer is dependant on:

- Control of film weight of inks.
- Adequate drying on press (to ensure that the print is dry before conversion)
- Establishing suitable coating weight of lacquer and controlling to this coating weight. (Suggested starting point dry lacquer coating weight minimum 0.8 g/sq.m).
- Establishing suitable tension and controlling tension within the printed reels.

Choice and control of appropriate film weights and solvent retention are printer technical requirements for which the SunChemical technical team can provide assistance in the form of suggestions or direct support.

Food Packaging: It is the ultimate responsibility of the food packaging supply chain to ensure packaged food is safe. Regarding potential migration of substances into food from the printed packaging, it is the responsibility of the converter and food packager to ensure that no such migration occurs beyond permitted regulatory levels.

To fulfill its responsibility within the supply chain, SunChemical will provide details to the customer of potential migratable components, where present in its inks, through the preparation and communication of a "Statement of Composition"

7. Disclaimers

The list of applications, substrates and processes provided in this document is not exhaustive. Please contact your local SunChemical 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. SunChemical always recommends that customers carry out a full evaluation of performance and safety-in-use prior to using our products in commercial applications.

8. Technical Assistance/Contacts

For further information, please contact your local Sun Chemical team or visit the Technical Help Desk at website: <http://www.sunchemicalhelpdesk.com>

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