

Norilit CS

1 Component Ink, Satin Gloss ink

Application:

Solvent-based, satin glossy screen and pad printing ink system, which is mainly used for printing on lacquered and powder-coated sheet metal, UV lacquered substrates and lacquered wood. Norilit CS inks can also be suited for thermosets, Polystyrene, ABS, SAN, paper and cardboard.

Properties:

Norilit CS ink type is a very quick drying ink system with a satin glossy appearance. Matting agents cannot be used with Norilit CS ink system

Weather Resistance:

For outdoor use Norilit CS shows medium resistance which is strongly dependant on the quality of the substrate being printed. By adding 10% hardener #2 the Norilit CS will become more resistant to chemicals as well as the elements. Adhesion will also improve with the addition of hardener #2.

Adjustments:

Pad Printing:

Norilit CS inks are adjusted with 20-25% thinner depending on temperature and humidity.

Screen Printing:

Norilit CS inks are adjusted with 10-15% thinner (primarily slow thinners).

NOTE: All of the below thinners can be blended to create different solvent evaporation speeds to suit your printing requirements.

Thinner Types: *(recommended for pad printing)*

Type	Suitable inks	Characteristics
6601	All "P" series inks	Very fast solvent, primarily used in automation or with inks that have slow drying speeds.
SK90	All "P" series inks	Fast solvent. Suitable for automatic production.
U90	All "P" series inks	Medium / Fast solvent evaporation. Most common solvent used with pad printing applications.

Thinner Types: *(recommended for screen printing)*

Type	Suitable inks	Characteristics
VZ	All "P" series inks	Slow solvent, normally used for screen printing. VZ can also be added to the recommended pad printing solvents to help with tacking.
VZ2	All "P" series inks	Very slow solvent used primarily for screen printing. Normally used in low humidity and or high temperature conditions.
K97	All "P" series inks	Very slow solvent used primarily for screen printing. Normally used in low humidity and or high temperature conditions.

In order to meet higher demands regarding mechanical and chemical resistance as well as adhesion, Norilit CS inks may also be used as a 2-component printing ink.

Mixing ratio for Norilit CS: hardener #2 is mixed 10:1 parts by weight.

Pot life of ink after adding hardener is approximately 6 hours. After this time adhesion and resistance might be reduced, even if the ink still seems to be liquid and processable.

Drying:

Norilit CS is a physically drying ink system which dries by evaporation of solvents in a jet air dryer. Rack drying is also possible.

Recommended curing temperatures: White ink [max. 80°C / 176°F]
All other colors [100°F / 212°F]

With heat application and air circulation the drying time is reduced to 30-60 seconds.

It will take approximately 24 hours to completely cure even when adding heat.

If processed as a 2-component ink, mechanical and chemical resistance will only be achieved after 3-4 days. This amount of time is required to achieve total evaporation of solvents from the 2-component ink system.

Cleaning:

For cleaning the stencils and tools our KJ-1525 cleaning thinner is suitable. KJ-1525 is also used for cleaning the stencils and tools when hardener is added to Norilit CS ink.

Packaging:

Norilit CS inks are available in 1 liter (approximately 1.06 quarts) cans.

Color matched inks are packaged as 1 kg./cans only.

Shelf Life:

Non opened cans of Norilit CS inks are good for 2 years on all colors except for ink color 207 Orange has a shelf life of 12 months.

Risk Information:

Read material safety data sheets prior to processing.

The material safety data sheets according to 91/155/EWG contain marking in compliance with the regulation on dangerous working materials as well as instructions for precautions when processing, handling, waste disposal and storing as well as first aid.

Norilit CS ink color shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.

Application Technology:

If you have any further print or application-related questions, our application engineering team will be happy to help. Contact by E-mail: info@diverprint.com or call the home office: 704-583-9433.

Basic Colors					
Clear	093	Red Transparent	368	Green Transparent	669
Citron	102	Red Violet	429	White	941
Yellow * ⁵	104	Pink Transparent	467	Black	951
Orange * ⁵	207	Violet	472		
Red	312	Blue Transparent	566		

Standard Colors					
White	945	Opaque White	944	Black Transparent	948

*⁵= Sensitive to temperature - do not stove dry.

The statements in our leaflets and safety data sheets are based on our present experiences, however they are no assurance of product properties and do not justify a contractual legal relationship. They serve to advise our business associates, but it is absolutely necessary to make your own printing tests under local conditions, with regard to the intended purpose prior to starting the job.

DIVERSIFIED PRINTING TECHNIQUES, INC.

13336 South Ridge Drive

Charlotte, NC 28273

P: 704-583-9433 / F: 704-583-9439

Info@diverprint.com / www.diverprint.com