

LDI for glass

Code M994717K001000

PRODUCT DESCRIPTION

Two-component solvent-based ink for screen printing on flat glass substrates. It belongs to **Light Diffusing Ink (LDI)** series.

APPLICATION FIELDS

LDI for glass, like all inks that belong to **Light Diffusing Ink (LDI)** series, is a product developed for printing on clear and extra-clear flat glass panels, intended for LED edge lighting. The main feature of the product is its high diffusion of the light, when illuminated by the edge of the glass substrate, combined with the high transparency under normal conditions (no illumination from the edge).

APPLICATION PROCESS

Substrates	Clear and extra-clear flat glass
Th/Cm	From 90 to 120
Squeegee	Square edge Squeegee hardness 60-65 shores
Drying	Hot air oven at either 165°C for 20 min. or 150°C for 30 min.
Blank ink	SERINK TRANSPARENT FOR GLASS - M994720K001000
Additive	LDI ADHESION PROMOTER M994743K001000
Catalyst	SERINK 10-15 CATALYST M994712K001000
Thinner	RETARDANT 90.998 A31890998
Storage	If kept in its original sealed package at a temperature between 15 and 25°C, the product has a shelf-life of 2 years
Safety Data Sheets	Available upon request

GENERAL FEATURES

- Good chemical resistance
- Excellent outdoor resistance
- Excellent adhesion
- High transparency

PREPARATION

In order to have excellent adhesion properties on glass, add 4% on weight of **LDI ADHESION PROMOTER** to the ink.

Dilute the ink with **RETARDANT 90.998** up to 20% on weight to obtain the desired viscosity for printing.

Before using it, the ink must be mixed well.

Wait for some minutes before printing after the mixing process.

The advice is to wait some minutes before cross-linking the printed ink.

The cross-linking of the printed ink occurs by heating the film either at 165°C for 20 minutes or at 150°C for 30 minutes.

If good chemical resistances are requested, it's necessary to add 16% on weight of **M994712K001000 SERINK 10-15 CATALYST** before the dilution of the ink.

For some applications it is possible to heat the printed film at high temperatures up to 550°C for a maximum of 10 minutes. In this case it's not necessary to add **SERINK 10-15 CATALYST**.

Always test the characteristics of the product before starting production.

The above information is the result of previous knowledge and experience; it is neither a guarantee nor an assurance.

SAMPLE PREPARATION

AIR OVEN CURING 165°C 20'

CODE	PRODUCT	Q.TY
M994717K001000	LDI FOR GLASS	100
M994712K001000	SERINK 10-15 CATALYST	16
M994743K001000	LDI ADHESION PRO-MOTER	4
A31890998	RETARDANT 90.998	0 – 20

OPTICAL FEATURES

According to the requirements of lighting design, the ink **LDI FOR GLASS** could be mixed with **SERINK TRANSPARENT FOR GLASS** (Cod. M994720K001000) in order to reduce the optical diffusion of the light.

STORAGE

Storage environmental conditions should be comprised between 15°C and 25°C and a relative humidity close to 50%. If the pristine packaging is well preserved, the product shelf life is 24 months.

PACKAGING

The standard packaging is 1Kg can.

WARNING

This technical data sheet does not replace either the Safety Data Sheet or the specific Conformity Declaration. These documents may be required to our SHEQ (Product safety office), at the following e-mail address: safety@eptainks.com

The technical data sheet does not relieve the printer, who remains the only responsible of the respect of the regulations, the specifications and the related required certifications of the finished items.

SAMPLE PREPARATION

AIR OVEN CURING 165°C 20' + BAKING IN MUFFLE 510°-550°C max 10'

CODE	PRODUCT	Q.TY
M994717K001000	LDI FOR GLASS	100
M994743K001000	LDI ADHESION PRO-MOTER	4
A31890998	RETARDANT 90.998	0 – 20

IMPORTANT NOTE

The information given in this technical sheet is not intended to be exhaustive and any person, using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us of the suitability of the product for the intended purpose, does so at his own risk.

While we endeavour to ensure that all advice we give about the product is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product.

Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of the product.

The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.