T.D.S. Rev. 01/2019 Water based



TEXTILE STRETCH. ELECTRONICS ENCAPSULANT

SEPRTR17010

PRODUCT DESCRIPTION

Water-based, transparent, one-component, stretchable encapsulant ink. It is used as protective encapsulant in combination with conductive inks to print stretchable circuits on textile.

APPLICATION FIELDS

- The ink is printed in combination with conductive functional inks and a thermoplastic adhesive (like EPTAINKS TEXIFLOCK E-FF) on sacrificial supports.
- The ink set is then transferred on fabric by means of a heated press following the "transfer printing" process, commonly used in the Textile Industry.
- Suggested transfer conditions: 180°C, 4 bar, 15 seconds or 130°C, 4 bar, 30 seconds
 Peel – off cold
- Its softness and elasticity makes it especially well-suited for wearable applications with comfort requirements.

GENERAL FEATURES

- High flexibility and elasticity
- · Good hydrophobicity
- Formaldehyde, phtalates and heavy metal free

PREPARATION

Ready-to-use ink. It can be diluted with water.

APPLICATION PROCESS

Support	Polyester release film
Th/cm	From 43 th/cm (110 Th/inch)
	to 77 th/cm (196 Th/inch)
Suggested Emulsions	Eptatech
	ZERO-IN UNIVERSAL PLUS,
	ZERO-IN KS 200
Squegee	Square edge
	Hardness 60-65 Shore
Drying	120°C, 2 minutes
	110°C, 3 minutes
Thinner	In case, max 3% water
Cleaning	Water or Screen clean ST
Storage	Away from solar light
	Temperature 15°-35°C
Package	Available in 1 or 5 Kg
Safety Data Sheet	Available upon request

APPLICATION

- During printing, it is recommended to adjust the off contact and the pressure of the squeegee at their best, in order to obtain an ink film that can remain onto the surface of the substrate.
- Keep the screen wet, by nebulizing water

DRYING

• Drying must take place at 110° - 120°C.



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SPECIAL INSTRUCTIONS

- Always test the printing characteristics, before starting production.
- These inks do not resist dry cleaning and bleaching.
- Squeegees, screens and cases, that are used with other ink series, must be cleaned well, in order to avoid any possible contamination and to grant eco-labelling specifications.
- In order to avoid a quick drying, due to environmental conditions:
 - o Print and lay an adequate ink quantity
 - In case of long breaks, do not cover the drawing in the screen, and spray small quantities of water, before starting again
 - Nebulize small quantities of water, in order to compensate the loss in humidity
- In case of medium-high print runs, a viscosity increment of the ink on the screen may take place. It is recommended to load small ink quantities and to replenish frequently.

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.

EQUIPMENT

Indicated for using onto automatic, semiautomatic and manual machines

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 to 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.

