

## PRODUCT DESCRIPTION

Mateprincs SRCE-002 is a Carbon/Graphite Cobalt mediated ink for screen printing.

This ink has been developed for working electrodes.

It is suitable for printing on many different substrates.

## PRODUCT BENEFITS

- Excellent adhesion to plastic substrates.
- Good compatibility with conductive and dielectric inks.
- Stable over time

## PROCESSING

### Screen Printing equipment

- Semi-automatic

### Screen type

- Monofilament polyester screen or stainless steel screen

### Recommended Screen type

- Monofilament polyester screen, threads/cm 61-130
- Emulsion 10-40  $\mu\text{m}$

### Recommended squeegee

Polyurethane, shore: 60-75

### Curing conditions

Static Box oven: 130°C, 20-30min

Belt furnace: 130°C, 2-3min

### Clean-up

To clean screen and equipment use a general product for screen cleaning and finish with ethanol

## INK PROPERTIES

### Typical properties of uncured ink

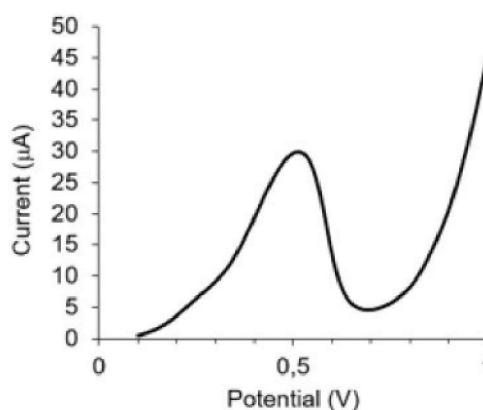
Solids Content, %	27,5-29,5
Density, g/cm <sup>3</sup>	1,8
Viscosity, Pa·s, (rheometer, 23°C), 10s <sup>-1</sup>	486-495 Pa·s

### Typical properties of cured ink

Adhesion, UNE EN ISO 2409	0-1
Sheet Resistance, $\Omega/\text{sq}@25\mu\text{m}$	180
Abrasion resistance, UNE EN ISO 151884 (Pencil Hardness, Scratch)	8H

Excellent as sensor for hydrogen peroxide, sulfur-derived compounds, and others (see chart)

Linear sweep voltametry, 0.1->1  
Buffer PB 0.1 M, pH 8 H<sub>2</sub>O<sub>2</sub> 0.005%

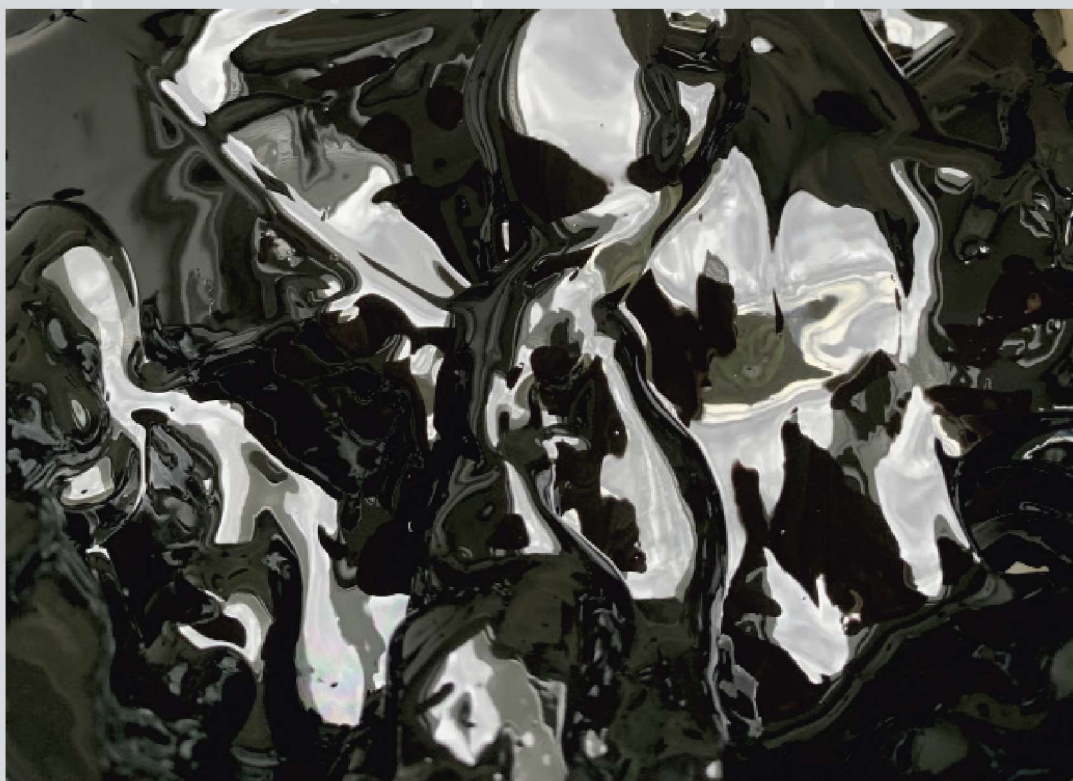


## STORAGE AND SHELF LIFE

Store the product in an unopened container in a dry location at room temperature (25°C). Avoid high temperatures and freezing. The ink shelf-life for an unopened container is 6 months from the date of shipment. Some settling may occur and the ink should be mixed thoroughly prior to use.

## SAFETY AND HANDLING

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS)



## DISCLAIMER

All the information provided in the technical data sheet including the eventual recommendations for use and the applicability of the product are based on our test results carried out by our technical team and we believe them to be accurate and reliable. We cannot make any warranty or representation express or implied, now or hereafter, as to the marketability, merchantability or fitness for use or for a particular purpose of any of the products. Furthermore we cannot assume any responsibility from any third party use, studies or applications as we have no control over their methods. In any case, and in the event that we would have to legally assume any responsibility related to our products, such responsibility will be limited to the amount paid by the client for the products.