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# AUROMEX<sup>®</sup>

## TECHNICAL INSTRUCTIONS

### DATA SHEETS

# SILVER PASTE 450

## INTRODUCTION

**SILVER PASTE 450** is an air-drying conductive lacquer which has a large number of possible applications. It can be used in all cases where excellent electrically conductive layers are required (e.g. on plastics, papers, wood, textiles, glasses, ceramics and metals etc.).

## TECHNICAL DATA

1. Metal content : 45% Ag  $\pm$  0.2
2. Consumption : 0.5 - 1.5 g/100 cm<sup>2</sup> (according to size of the screen)
3. Thinner
4. Viscosity : 0.3 mm ; 25°C  
Flowing time through the cup : 30-35 sec.

## METHODS OF APPLICATION

1. Conductive silver should be shaken well before use so that the silver flakes become evenly distributed in organic carrying agent.
2. It can be applied with a brush, spray gun or by dipping.
3. Drying conditions - recommendations  
20°C / 30 min.  
80°C / 10 min.  
150°C / 5 min.

To achieve a better adhesion and conductivity, it should be dried at a higher temperature. (Up to max. 150°C for at least 5 minutes).

### P.1

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## **CHARACTERISTICS OF DRIED CONDUCTIVE LAYERS**

1. Sheet resistivity  
0.04 - 0.02  $\Omega / \square$   
(according to the thickness of the layer and the drying temperature)
2. The thermal and electrical load carrying capability of this product depend on the drying conditions and in which way heat transfer by the substrate is performed.
3. Storage  
This conductive silver preparation can be stored for at least 6 month, but storing in a refrigerator can increase the stability for more than 2 years.