

KOENEN Backside Dual Coating

The **KOENEN Dual Coating Technology** is our solution for an efficient and cost conscious backside metallisation. The metallisation is conducted in two separate printing steps which leads to a significant reduction of paste and production costs.

Product characteristics

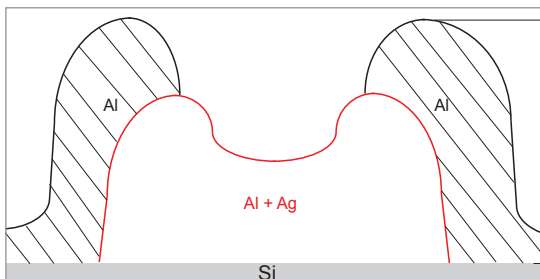
- Homogeneous backside metallisation enables
 - › an even planar transition between Al and silver paste
 - › paste reduction potential
- Reduction of micro cracks along the busbars
- For back-back-front printing cycles
 - › Improved front side metallisation
 - › Reduction of production rejects

Printing steps of Dual Coating

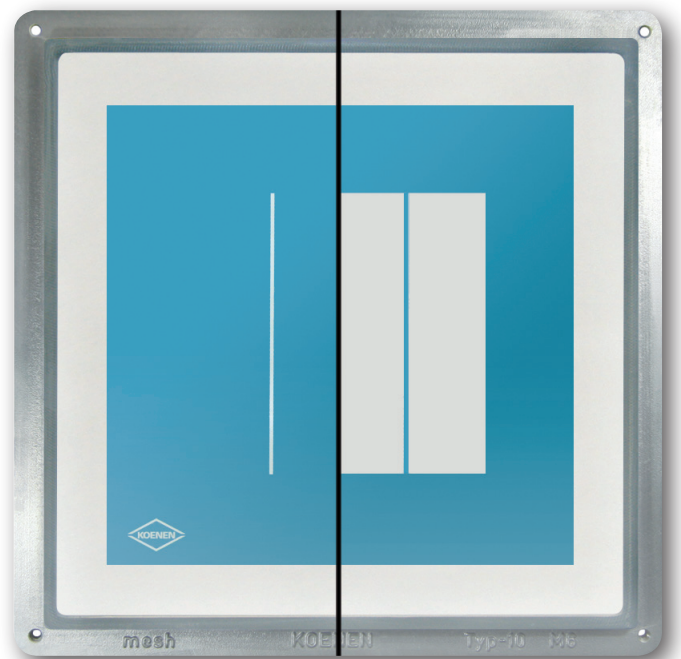
1. Printing of busbar
2. Printing of Al area

Cost reduction due to:

- **Paste reduction**
- Improved **conductivity**
- **Improved efficiency** of cell



Schematic representation of a typical inhomogeneous printing image (above). 3D-measurement of an inhomogeneous backside metallisation (without KOENEN Technology) (right).



Precision screen for (le.) busbar and (ri.) Al area