

# Printing processes and their demand on coated paper as a substrate. A case study. Influence of coating weight thickness variation on the print evenness.

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## **ABSTRACT**

This is an overview on different printing processes and their demand on coated paper ( substrate) to achieve best print quality. All the printers stress more on print evenness as one of the key parameter of quality printing. To understand coated paper as a substrate in offset printing, a study was carried out by varying coat weight/thickness influences on print evenness, i.e. Double coated matt board (board 1), Triple coated Matt board (board 2).

The term print evenness is an important attribute of offset printing. This depends on uniform ink transfer to the paper and controlled spread of ink (in case of dots it is called dot gain.)

In consideration of this, we have studied the influence of different coat weight/thickness on the print evenness by printing two different coat gsm/thickness boards in sheet offset printing. As a result we found that lower coating thickness board showed print unevenness in comparison with highly coated board. We have confirmed these results with the help of SEM observations of coated board cross sections.

In addition, we found that print evenness is a result of back trap motting and which is a effect of base paper formation, type of coating application and total coating gsm/thickness applied on base paper.