

Inkjet Printing as Coating Technology

Bas Middelbos, Océ-Technologies | A Canon Group Company, R&D, PO Box 101, 5900 MA, Venlo, The Netherlands. Email: bas.middelbos@oce.com, Website: www.oce.com

Abstract

Printing is a coating technology because it involves the deposition of functional layers on a substrate. Inkjet is the printing technology of the future due to fundamental advantages. The R&D department of Océ Technologies, a Canon company, is a major player in the creation and development of inkjet technologies for many different applications. In this presentation an overview of the Océ inkjet technologies will be presented, including strengths and limitations. It will include technologies like CrystalPoint, UV flatbed, High Resolution 3D, MetalJet, etc. The main focus will be on inkjet with water based inks used in high speed printing products for the graphic arts market. We will discuss how knowledge of coating technologies has been used in the development of these products. We will finalize with an outlook towards the challenges and opportunities in the future.