

Currency News

SECUNOTE Chameleon – Rolic’s New Level 1 (and 3) Security Feature

LCMO (Light Controlled Molecular Orientation) involves the spatial alignment of liquid crystals and was developed in the R&D department of Hoffman Laroche in Switzerland; it was this department and the LCMO technology that formed the basis for the Rolic company. Rolic’s LCMO technology is also used in the LCD industry, but the company has developed special products just for the banknote industry.

SECUNOTE Banknote Products

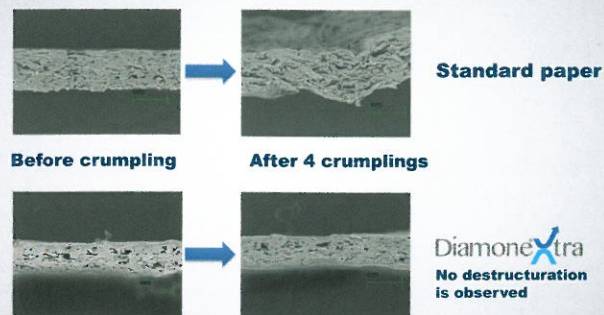
At Banknote 2011, Rolic launched several products under the SECUNOTE® brand – these were SECUNOTE Diamond, Sapphire, and Oyster. These products can be applied to a banknote in the form of a stripe, patch or thread and each has distinctly unique properties and appearance; none are, or for that matter resemble, diffractive holograms.

Rolic has again chosen the Banknote conference to launch a new product - SECUNOTE® Chameleon – which is based on Rolic’s tried and tested technology, NICE (New Innovative Cholesteric Element). This product can be a colour shift stripe, patterned patch or thread which can also be in demetallised format, in (as of now) three distinct colour pairs - red/green, blue/green and magenta/green. The colour shift in these products is very bright and distinct, not least due to its smooth surface, and the unique LCMO technology ensures that the feature cannot be copied or scanned.

Level 1 and 3

SECUNOTE Chameleon can also have a highly covert central bank (level 3) security element through the use of selective reflection patterns within a defined waveband, which allows high speed machine read ability/automated verification.

Diamone®Xtra A stronger internal structure



Diamone®Xtra Launched, con't

And this is where DiamoneXtra represents a major breakthrough, as the first of its kind: it has a very high durability substrate made of 100% cotton.

The durability of DiamoneXtra is achieved through special coatings – first a base coat and second a top coat. The base coat provides protection against soiling and the top coat ensures high ink adhesion.

The coatings are integral to the substrate and there is no risk of delamination, and in combination they provide a very high level of protection against dirt, grease and water. This was convincingly demonstrated in the presentation by Christophe Halopé by immersing a standard cotton substrate and DiamoneXtra in a bath of dirty motor oil. Arjowiggins tests on DiamoneXtra indicate that it should increase the circulation life of a banknote by at least three times that of standard cotton based substrate.

One of the major attractions of DiamoneXtra is that it processes just like a normal cotton substrate and acts and feels like one. No special inks are required, the drying time is not extended, ink adhesion is excellent, abrasion resistance is increased and all the normal substrate and print security features can be embedded or applied respectively without modification.

Another advantage, because it handles like standard cotton paper, is that there is no need to adjust banknote finishing and inspection systems.

Finally, DiamoneXtra eliminates the need for post-print varnishing.

