**TECHNICAL DATA SHEET**

**Range name:**

**SICURA LOW NRGY/LED ROCK**

**Description:**

**SICURA LOW NRGY/LED ROCK** is a high reactivity free radical system especially developed for UV sheetfed presses equipped with either the low energy UV technology (iron doped Mercury lamp) or LED UV (Light Emitting Diode) dryers with wavelength output 385-395 nm. 

This series is presenting excellent deinkability properties independently of the UV lamp type.

Formulation of this series is following the EuPIA exclusion Policy Guidelines

**Application Fields / Market:**

All types of high quality commercial printing jobs requiring out-standing image quality and excellent rub resistance. Particularly recommended for luxury magazines, covers, and any high-end jobs.

The use for packaging applications is also possible depending on the substrate and on the drying equipment of the press.

**Product safety:**

This series is not suitable for: Food packaging, pharma or hygiene.

In case of food packaging application, please contact our technical department.


**Substrates:**

All types of papers & plain boards

Adhesion on non-absorbent substrates and other resistances properties require to be primarily checked for each new application

**Features - Performances:**

- **ON THE PRESS SIDE**
  - Exceptional stability of ink / water balance
  - Compatibility with all types of dampening systems using either alcohol minimizer or conventional water fountain solutions
  - Inks remain very stable on the rollers
  - No misting even on high speed presses
  - Very high reactivity
    Reactivity is influenced by the substrate, efficiency of the lamps and reflectors, the thickness of the ink layer, colours and superposition, etc…
  - Suitable for 4+4 presses
  - Reduce ink build up on impression cylinder on perfecting presses.
  - Compatible with mix rollers
ON THE PRINTING SIDE

- These inks have successfully passed the INGEDE test n°11 for the deinkability
- Super dot sharpness
- Excellent flexibility for folding and creasing finishing operations
- Excellent rub resistance on sensitive substrates
- Over printable with Sicura Flex OPV or Offset OPV suitable for the type of dryer installed on the press. For a more appropriate offer please consult our technical department

The range:

PROCESS INKS

<table>
<thead>
<tr>
<th>Colours</th>
<th>Reference numbers</th>
<th>IWS (1)</th>
<th>Alcohol</th>
<th>Solvent</th>
<th>Alkali</th>
<th>Laser or UV varnishing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Yellow L-NRGY/LED</td>
<td>70-301169-2</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>Yes</td>
</tr>
<tr>
<td>Process Magenta L-NRGY/LED</td>
<td>70-802475-7</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>Yes</td>
</tr>
<tr>
<td>Process Cyan L-NRGY/LED</td>
<td>70-120094-1</td>
<td>8</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>Yes</td>
</tr>
<tr>
<td>Process Black L-NRGY/LED</td>
<td>70-900925-8</td>
<td>8</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>Yes</td>
</tr>
<tr>
<td>Intensive Black L-NRGY/LED</td>
<td>70-901006-0</td>
<td>8</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>Yes</td>
</tr>
</tbody>
</table>

(*) These inks are compliant with ISO 2846-1

We do not recommend to use above process inks nor the complementary black for mixing system.

(1) These light fastness values refer to a solid tone printing. Light fastness decreases when colour strength is reduced or if colours are intermixed

Warning:

- These UV inks are guaranteed for a period of 12 months after manufacture. Please check use by date indicated on the cans.
  - Storage temperatures should not exceed 20°C for weeks or 25°C for days. Higher storage temperature reduce the shelf life
  - Open containers must be kept away from light sources and be closed after usage.
- Please consult material safety data sheets (MSDS) for more information.
- We do not recommend the use of these inks for the printing of posters or other displays/jobs destined to be exposed to outdoor climatic conditions

Auxiliary printing additives:

When certain substrates or machine conditions imply adjustments of the ink properties, the additives should be chosen in function of this substrate and of the further processing of the printed matter.

<table>
<thead>
<tr>
<th>Role</th>
<th>Designation</th>
<th>Reference numbers</th>
<th>Proportions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thinner</td>
<td>Thinner</td>
<td>81-470072-0</td>
<td>1 to 3 %</td>
</tr>
<tr>
<td>Tack reducer</td>
<td>Anti-tack paste</td>
<td>81-470071-2</td>
<td>1 to 3 %</td>
</tr>
<tr>
<td>Cure booster</td>
<td>Photo-initiator</td>
<td>71-470108-3</td>
<td>2 to 5 %</td>
</tr>
<tr>
<td>Roller saturator</td>
<td>Roller saturator paste</td>
<td>81-470537-2</td>
<td>Direct on rollers</td>
</tr>
</tbody>
</table>

For Fountain additives and Cleaning products please contact our technical department.
<table>
<thead>
<tr>
<th>Packing size:</th>
<th>2.5 kg</th>
<th>Packaging code</th>
<th>1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Plastic can</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This information is based on our experience and on results obtained in the laboratory, using specific processes and types of application. In view of the diversity of substrates and printing conditions, this data is communicated for information purposes only and is provided without any warranty on our part and must be authenticated by industrial tests before the products are used. Improvements are being made to our products on an ongoing basis and we therefore reserve the right to modify their composition as well as the contents of our technical data sheets. We disclaim any liability for applications for which this ink series is not foreseen.