Primers and Inks (Aqueous based) for UV Inks

AQUES AC Series

AQUES AC was designed as an under printing aqueous-based primer (ink) for UV inks. It is designed to give best possible primer properties (ink acceptance, adhesiveness) to UV inks. By allowing brilliant metallic, pearlescent and hiding effects, which are difficult to achieve in offset printing, it enables added value inline printing. In addition, offline printing with varnish coaters, etc., is also possible. This product is low VOC, environmentally friendly, aqueous-based primer (ink) that conforms to NL Regulations. Thus, it can also be used for the printing of environmentally friendly products.

■ Product List

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQUES AC Pearl</td>
<td>Silk Gloss</td>
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<tr>
<td></td>
<td>Pearl Gloss</td>
<td>※Custom Made</td>
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<tr>
<td></td>
<td>Highly Brilliant Pearl Gloss</td>
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<tr>
<td>Special Color</td>
<td>Colored Pearl Gloss</td>
<td>※Custom Made</td>
</tr>
<tr>
<td>Polarization Color</td>
<td>Polarization Colored Pearl Gloss</td>
<td>※Custom Made</td>
</tr>
<tr>
<td>AQUES AC Silver</td>
<td>Highly Bright Silver</td>
<td>※Custom Made</td>
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<tr>
<td></td>
<td>Metallic Luminance</td>
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<tr>
<td>AQUES AC White</td>
<td>White</td>
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<tr>
<td>AQUES AC Clear</td>
<td>For Primer Use</td>
<td>It can be used as a diluent.</td>
</tr>
</tbody>
</table>

※Production of the custom-made products starts from the ordering of pigments, and so delivery takes about 1 to 3 weeks.

■ Applications

- Coated paper
- PET
- PP sheet
- Aluminum evaporation paper
- Synthetic paper

■ Paper Related Information

- AQUES AC Pearl and Silver are not suitable for papers of poor smoothness, such as non-coated and embossed papers.
Even in case of coated papers adhesiveness and back trap can be inferior if the surface processing of the paper comes off easily when rubbed with water.

We also offer S type that provides improved scratch resistance for nonabsorbent papers, such as PP, PET, aluminum evaporation, and YUPO papers. Confirm adhesiveness and other physical properties prior to use.

In offline use provide sufficient airflow to avoid waviness of paper due to moisture.

When using a stencil for the first time or changing print conditions, such as amount of coat, etc., make sure to confirm the applicability prior to use.

### Printing Methods
- Flexographic
- Rotogravure
- Coater

### Handling Instructions
- This product has a tendency to sediment, therefore, stir well prior to use.
- It is non-hazardous product, however, it contains low (below 5%) amount of organic solvent and amine. Make sure that the workplace is sufficiently ventilated and flammables are prohibited.
- Off the shelf household detergents (such as Kao, Magicrin, etc.) can be used as cleaning agents.
- Handle the solution waste in accordance with the law, such as hiring services of a Waste Management Contractor.
- We recommend following inks for over printing.
  - UV Ink: UV HY-BD.(Eco-mark certified)
  - Over-coat: UV VECTA coat varnish.
- Use Best SP (ink for non-absorbent surface) for oil-based inks.
- Silver reacts with acid, alkali, and water and emits hydrogen gas. Unseal the lid after delivery and place it on the container; store in a good ventilated cool and dark place. Residual ink should also be stored as above.
- Make sure to read MSDS thoroughly before using the product.