

## ISONIK® YL-P200

Color yield enhancer for digital printing with reactive and acid inks.

<b>Nature</b>	W/O emulsion of modified acrylic copolymers
<b>Appearance</b>	White fluid
<b>Ionic nature</b>	Anionic/non-ionic
<b>pH</b>	7,0-9,0
<b>Stability to pH</b>	Stable between pH 5 and pH 10
<b>Solubility in water</b>	Miscible in any ratio
<b>Storage stability</b>	12 months. Store between 5 and 30°C
<b>Stability of solutions</b>	Avoid keeping the ready-to-use padding bath for more than 48 hours.

### Product description



ISONIK YL-P200 is an additive for the pretreatment of cellulosic and proteic fiber fabrics before inkjet printing. Recommended for padding treatment before digital printing with reactive and acid inks. To be used in combination with anti-migration agents from ISONIK AM-P Series.

Its main feature is the high improvement of colour yield. Thanks to this feature, a combination of ISONIK AM-P200 / ISONIK YL-P200, in conjunction with ISONIK C-LU, allows a reduction of urea content in the printing processes, consequently a remarkable reduction of nitrogen content in wastewater. A reduction of 50-60% of nitrogen content in wastewater can be achieved, with very limited influence on colour yields.

The product shows a moderate anti-migration effect and requires a correct and specific combination with ISONIK AM-P to achieve best results. The ideal combination ratio depends on composition, weight, and structure of treated textiles.

ISONIK YL-P200 regulates the diffusion and penetration of inks into textile fiber, reduces surface migration of dyes thus promoting the following performances:

- Definition and sharpness of the print,
- Levelness and color brilliancy across the whole printed surface,
- Improvement of colour yield.

Additional features:

- Easy wash-off at the end of the process (no influence on the natural hand feel of fabrics),
- Easy-to-use by simple addition to pretreatment padding baths,
- Minimal film or residual formation on equipment,
- Good compatibility with anionic and non-ionic products,
- Low foaming,
- Easy to use at medium to low temperature.

## Instructions

### Bath preparation

ISONIK YL-P200 can be added by slow stirring into water, preferably as last after the addition of other chemicals. It is recommended to add the required amount into the pretreatment bath under slow, constant stirring. High-speed stirring can break product's emulsion and generate stable foam.

The typical dosage is 5-10 g/l in combination with an Isonik® AM- P Series anti-migration agent.

The use of soft water is highly recommended.

Please contact Isocarbo's technical service for recommendation on the correct bath recipe composition to suit the article to be printed and to match the desired effects, especially in terms of penetration of the ink to the reverse side of the textile.

### Application

Padding baths with ISONIK YL-P200 are applied with an average pick-up of 70-90%, accordingly to fabric type and to the desired balance between penetration, sharpness and color yield.

### Remark

We recommend against keeping the ready-to-use baths for longer than 48 hours. Should baths be used after more than 24 hours, the same should be protected against evaporation and surface film formation by storing in closed containers or covering with polyethylene film. In case of baths prepared 12 hours in advance or more, stir gently and filter before use.

### Storage

ISONIK YL-P200 is stable for 12 months in its original unopened containers.

Store between 5 and 35°C.

Avoid direct exposition to sunlight and frost conditions.

#### DISCLAIMER

The information included in this document are based on the actual experience and knowledge and they are not intended to be exhaustive. This product is for professional use only. Any product usage other than those specifically recommended with no further confirmation by Isocarbo is at one's own risk. Isocarbo guarantees that all given instructions about ISONIK YL-P200 re correct. Isocarbo has no control over either the quality or the conditions of the substrate or factors that may affect ISONIK YL-P200. performance. Isocarbo Srl strongly recommends that extensive preliminary tests are performed, in order to evaluate any unexpected product behavior. Unless otherwise approved in writing, Isocarbo shall not be liable for any different performance, loss or damage due to unaccepted use of ISONIK YL-P200. Isocarbo ensures its commitment to ongoing product development and improvement; hence the content of this technical sheet is susceptible to changes.