



Color Way HPW™ Series

WATER BASED

Technical Data Sheet

Ecological Discharge System

The Color Way Ecological Discharge System is a water based system when printed on dischargable garments, produces a very soft print with bright colors. This system is very easy to work with on the screen and the pastes do not gel during the production.

The discharge process removes the dye from the garment, leaving it with its natural raw color. If any water based pigments are mixed to the Discharge system, then the garments color will be replaced with the color of that pigment. **Note that the coloring pigments should be suitable for discharge.*

However, it is of utmost importance to test the garment for dischargability before production. This system consists of the following items:

*HPW-220 Discharge White
HPW-225 Discharge Base
HPW-228 Discharge Activator ST
HPW-229 Discharge Activator EC*

PRINTER'S GUIDE

Suitable Garments	100% Cotton and reactive dyed garments. Testing for suitability is mandatory.
Mesh	43-77 t/cm (110-195 t/in)
Stencil	Most water resistant direct emulsion stencils are suitable.
pH Value	6.5 - 7.0
Coloring	Up to 5% by weight water based pigments. HPW-220 and HPW-225 are intermixable.
Curing Information	150-170°C (302-338°F) / 1-1.5 minutes for 2 times
Storage	5-25°C (41-77°F). Avoid direct sun. Keep containers tightly closed when not using.
Cleanup	Clean with water or non-abrasive detergents.
Packaging	In 5kg buckets, 30kg plastic drums.

PRINTING INSTRUCTIONS

HPW-220 and HPW-225 are ready-to-print ecological discharge inks. After being colored by adding 3-5% water based pigments, 5-6 % discharge activators should be mixed into the system. (** It is very important to first mix the discharge base/white with the pigment and only then add the discharge activator.*) This final mixture should be very well stirred. Wait for approximately 5-10 minutes before starting any print runs, in order to allow the activator to be completely melted and penetrated into the colored discharge paste.

Once the discharge activator is added, the final mixture will have an effective pot life of 24 hours. Since the final mixture will lose its properties after the mentioned 24 hours time, it is important to only mix needed amounts.

Please note that changes in the dryers actual temperature may have an effect in the resulting color.

* All recommendation and statements made, if any, are based on Renk Yolu Kimya's research and experience. However, since Renk Yolu Kimya has no control over the conditions of use or storage of the product sold, Renk Yolu Kimya cannot guarantee the results obtained through the use of its products. All products are sold and samples given without any representation or warranty, expressed or implied, of fitness for any particular purpose or otherwise, and upon condition that the buyer shall determine the suitability of the product for its own purpose. This applies also where protective rights of third parties involved. It does not release the user from the obligation to test the suitability of the product for the intended purpose and application.

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