

ITOREFLECT GB is a retro-reflective colour print ink which is high in both night time visibility and fashionability. It is available in water-based and oil-based types. ITOREFLECT GB is a retro-reflective colour ink that reflects light when illuminated at night. Conventional reflective ink was limited to silver, but we have succeeded in developing the first full-colour ink range by changing the reflection mechanism.

CHARACTERISTICS

1. ITOREFLECT GB can be printed on fashionable fabrics such as casual clothes as well as on non-woven cloths, papers and wood materials. It is also suitable for commercial signboards.
2. In addition to the pigment, special glass beads of 20 to 100 microns in diameter, a special reflective material of 25 microns in diameter and adhesive resin cross-linker are mixed into the ink. The reflective material reflects the light coming in through the glass beads, and at the same time emits the colour vividly through the pigment. The reflected light is visible even from 100 meters away.

Not illuminated



Illuminated



3. ITOREFLECT GB is available in water-based and oil-based types.
4. The water-based ink can be used for absorbent clothes, ad flags, non-woven fabrics or papers. Paintbrushes and tools can be easily washed out and cleaned with water.
5. The oil-based ink can be used for water-repellent materials such as nylon, PVC sheet, plastic sheets or film. Please contact us for information on diluents
6. Full-colour printing is possible with seven basic colours; white, black, red, blue, yellow, silver and gold. They can be used for various purposes from casual sport wear to flags and signboards.
7. The seven colour inks can be mixed to produce your design more fashionably. Furthermore, the retro-reflective ink reflects car headlights well at night, it is especially recommended to those who jog or walk at night. (The below photos of T-shirts are taken with a flash in daytime and night time).

Not illuminated



Illuminated



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APPLICATION

Printing or Painting

Type	Colour	Feature	Material and method suitable for painting	Application
Water-based (HT type)	7 standard colours: black, white, red, blue, yellow, gold, silver * Other colours available on demand	high-temperature treatment type - can be mixed with other colours	- hydrophilic material (cotton, polyester fabric) [screen printing]	T-shirts, clothes, ad flags, hats, bags
Water -based (LT type)	7 standard colours: black, white, red, blue, yellow, gold, silver * Other colours available on demand	- low-temperature treatment type - can be mixed with other colours		
Oil-based (EX type)	7 standard colours: black, white, red, blue, yellow, gold, silver * Other colours available on demand	- for polyvinyl, EVA - can be mixed with other colours	- water-repellent material (sheet, film) [screen printing]	school bag covers, banners, tents, signboards
Oil-based (NS type)	7 standard colours: black, white, red, blue, yellow, gold, silver * Other colours available on demand	- for nylon, PET - can be dried at room temperature - can be mixed with other colours		

DISCLAIMER

The information herein offered is based on the best of our knowledge at present. However, we are not able to guarantee these matters, as the result of application may vary according to conditions adopted. Preliminary tests are, therefore, recommended in all cases. Please refer to MSDS regarding handling of the products.

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