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SMART CHEMISTRY
WITH CHARACTER.

BEZAFLUOR FF

FLUORESCENT PIGMENT DISPERSIONS FOR PRINTS
WITH HIGH CONTACT FASTNESS LEVEL

BEZAFLUOR FF

Waterbased fluorescent pigments with excellent suitability for production of textiles in compliance with STANDARD 100 by OEKO-TEX®, Class I.

Illustrated samples are printed with 200 g/kg (20 %) of BEZAFLUOR FF in a transparent paste.

			g/kg
Fastness to light	ISO 105-B02		CC
Fastness to Weathering	ISO 105-B04		CC
Fastness to saliva and perspiration	BVL B 82.10	according to STANDARD 100 by OEKO-TEX®	CO
Fastness to Perspiration, acidic	ISO 105-E04		CO PA
Fastness to dry cleaning	ISO 105-D01	Perchloroethylene	CC SO
Fastness to hypochlorite bleaching	ISO 105-N01	2 g/l NaClO	CC
Fastness to chlorinated water (swimming pool water)	ISO 105-E03	50 mg Chlorine 100 mg Chlorine	CC
Suitability for PVC Coating	ISO 105-X10		PVC
Migration in white paste (T-Shirt Printing)	CHT internal	see information below	White
Resistance to discharge in printing paste	CHT internal	100 g/kg TUBISCREEN® DC AGENT, see information below	
Change of shade on fixation	CHT internal	4 min. at 150 °C	CC
Heat stability on CO and PES	CHT internal	1 min. at 200 °C after curing 4 min. at 150 °C	CC on CO CC on PES

INFORMATION ABOUT FASTNESS

The fastness properties indicated in the shade card were determined with transparent prints on bleached and mercerised cotton with the concentrations mentioned. We have deliberately dispensed with providing information on washing and crocking fastnesses, since they depend mainly on the binding and fixing agents used and barely on the pigment. Depending on type and application quantity (with reference to the amount of pigment used) of binding and fixing systems, these fastnesses may vary significantly. In addition washing and crocking fastnesses are influenced by fixing conditions (temperature and time) as well as by the condition of the material to be printed (residual size, neutral pH value, mercerization, texture of the surface). Fastness notes in this case would reflect a momentary situation under optimal test conditions and hence would not be meaningful under other conditions in practice.

DETERMINATION OF MIGRATION INTO WHITE PASTE

1. Printing one layer of 200 g BEZAFLUOR FF in 800 g PRINTPERFEKT 226 EC
2. Overprinting of three layers of PRINTPERFEKT WHITE 680 FF
3. Overprinting of one layer of PRINTPERFEKT GD 270 after every printing layer intermediated flashing
4. Curing 5 minutes at 150 °C

DETERMINATION OF RESISTANCE TO DISCHARGE

Only if print pastes with and without discharging agent don't show colour change immediately and after one day the product is classified as suitable ("*").
Concentration of pigment for determination: 50 and 200 g/kg

INFORMATION ABOUT ABBREVIATIONS

CC Colour Change
PA Staining of polyamide
SO Staining of the solvent
PVC Staining of the PVC-foil
CO Staining of cotton
White Staining of white paste
+ resistant to discharge
(+) limited resistant to discharge (weakness in very light shades)
- not resistant to discharge
bl bluer
n.d. not determined



BEZAFLUOR Yellow FF BEZAFLUOR Orange FF BEZAFLUOR Red FF BEZAFLUOR Pink FF BEZAFLUOR Green FF BEZAFLUOR Blue FF

200		50		200		50		200		50	
2	1	2	1	2-3	1	3	2	2 bl	1 bl	8	8
2-3	1	1	1	2	1	2-3	1-2	3 bl	1-2 bl	7-8	7-8
4-5	5	4-5	5	5	4-5	4-5	5	4-5	5	5	5
4-5 3-4	n.d. n.d.	4-5 3-4	n.d. n.d.	4-5 3-4	n.d. n.d.	5 4-5	n.d. n.d.	4-5 3-4	n.d. n.d.	5 5	n.d. n.d.
5 4-5	5 4-5	2-3 4	3 5	3-4 4-5	3-4 5	3-4 5	4 5	5 4-5	5 4-5	4 5	4 5
3-4	2-3	1-2	1-2	1-2	1-2	2 bl	2 bl	4	2-3	5	5
3-4 2-3	3-4 2-3	1 1	1 1	1 1	1 1	1 1	1 1	4 2-3	3 2	4-5 4-5	5 5
5	5	3-4	4	2-3	3-4	2-3	3	5	5	5	5
3	n.d.	3-4	n.d.	3	n.d.	2-3	n.d.	3-4	n.d.	5	n.d.
+	+	+	+	+	+	+	+	+	+	+	+
5	5	5	5	4-5	5	5	5	5	5	5	5
5 4-5	4-5 5	5 5	5 4-5	4-5 4-5	5 4-5	4-5 4-5	4-5 4-5	5 5	5 5	5 5	5 5

ECOLOGICAL INFORMATION

Name of the product	AOX*	Formaldehyde**	Content of heavy metal***	bluesign® approved
BEZAFLUOR Yellow FF	free	free	free	yes
BEZAFLUOR Orange FF	free	free	free	yes
BEZAFLUOR Red FF	free	free	free	yes
BEZAFLUOR Pink FF	free	free	free	yes
BEZAFLUOR Green FF	0.2 %	free	free	yes
BEZAFLUOR Blue FF	free	free	0,2 % Cu	no

* Method of estimation: DIN EN ISO 9562 limit value: 0.1 %

** Determination of the concentration of total in-can formaldehyde according to VdL Guideline 03, 2018, limit value 10 ppm.

*** The heavy metal is complex bonded and therefore a part of the pigment molecule.

ECOLOGICAL INFORMATION

The BEZAFLUOR FF range fully complies with the requirements on the limits for impurities or by-products as specified in the ZDHC Manufacturing Restricted Substances List (ZDHC MRSL) (current version 2.0, February 2021, refer to www.roadmaptozero.com).

The products of the BEZAFLUOR FF range are suitable for the coloration of textile materials which have to fulfill the requirements of STANDARD 100 by OEKO-TEX® (edition 03.2021).



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