



Brilliant Ink Base Extra Strength BIB2 SERIES

A tinctorially strong fluorescent ink base for use in sheetfed, heatset and UV ink systems that prints in one pass at equivalent strength of a typical fluorescent ink base in two passes. BIB2 contains no traditional ink oils, which can attack rollers on UV presses.

Principal Applications

- Sheetfed
- Heatset
- UV Litho

Product Features and Benefits

- | | |
|--|--|
| <ul style="list-style-type: none"> • High Color Strength | <p>Extra strength base offers formula flexibility and increased value in use</p> |
| <ul style="list-style-type: none"> • A complete palette of fluorescent colors | <p>Provides a wide range of color options</p> |
| <ul style="list-style-type: none"> • Broad compatibility | <p>Formulations can be prepared in conventional and UV letdowns</p> |
| <ul style="list-style-type: none"> • One shelf-stable base for both conventional and UV systems | <p>Simplifies purchasing and inventory management</p> |

Pigment Specifications

Particle size	0.1-0.5 microns
Particle Shape	Spherical
Viscosity, undiluted	25 - 30 seconds (Laray viscometer, 800 gram weight, 90°F)

Color Guide

<u>SHADE</u>	<u>CODE</u>
Invisible Blue	BIB2-CL201
Green	BIB2-GR202
Yellow	BIB2-YE203R
Orange	BIB2-OG204
Red	BIB2-RD205
Pink	BIB2-PK206
Magenta	BIB2-MG207
Chartreuse	BIB2-CH227

Suggested Starting Formula* **Sheetfed**

BIB2 Base	70.0
Sheetfed Gel Varnish	22.0
Magiesol 52	4.0
12% Manganese Drier	1.0
18% Zirconium Drier	1.0
PE Wax Powder	2.0
Total	<hr/> 100.0

Tack, 1200 rpm at 90°F	14 - 15
Viscosity, Laray, 200 grams, 90°F	20 - 30

Suggested Starting Formula* **Heatset**

BIB2 Base	70.0
Heatset Gel Varnish	23.0
Magiesol 47	5.0
18% Zirconium Drier	1.0
Micronized PTFE	1.0
Total	<hr/> 100.0

Tack, 1200 rpm at 90°F	14 - 15
Viscosity, Laray, 200 grams, 90°F	20 - 30

Suggested Starting Formula* **UV Flexo**

BIB2 Base	30
Sartomer CN293	25
Sartomer SR306F (TPGDA)	38
TPOL (photoinitiator)	7
Total	<hr/> 100.0

Suggested Starting Formula*	UV offset
BIB2 Base	50
Sartomer CN294E	34
Sartomer SR306F (TPGDA)	11
TPOL (photoinitiator)	5
Total	100.0

*Note: Tack and viscosity can be altered by adjusting the proportions of the base, varnish and solvent. Drying speed for sheetfed and heatset inks will be affected by temperature, humidity, substrate and absorption.

**Polyester acrylates typically result in considerably more shelf stable finished UV inks than epoxy acrylates. Brilliant can provide a guide to suggested oligomers found to produce shelf-stable inks.

The above formulations are offered as suggestions only. The user should be guided by his own tests as to the suitability of the formulas for specific applications.

Storage: When stored in a cool, dry environment, and containers are kept tightly closed, BIB2 bases are stable in can for many years. Ink base containers should be kept closed to minimize contamination.

IMPORTANT: DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY

Technical Information

The technical information contained in this document is provided for general informational purposes only. All information is believed to be accurate and reliable at the time of publication, but no guarantee or warranty, expressed or implied, is given as to its completeness, accuracy, or suitability for any particular purpose. This information should not be relied upon as professional advice or the sole basis for decisions, as the performance of pigments can vary based on numerous factors, including but not limited to application methods, substrates, and environmental conditions.

No Warranty

To the fullest extent permitted by law, we hereby disclaim all warranties, whether express or implied, statutory or otherwise, including, without limitation, any implied warranties of merchantability, fitness for a particular purpose, non-infringement, or any warranties arising from course of dealing or usage of trade. The pigments and any technical information provided are made available "AS IS" and "WITH ALL FAULTS."

Limitation of Liability

Under no circumstances shall Brilliant Group, Inc., its affiliates, officers, shareholders, directors, employees, or agents be liable for any direct, indirect, special, incidental, consequential, or punitive damages (including, but not limited to, loss of profits, loss of business opportunities, loss of data, or any other commercial or economic losses) arising out of or in connection with the use, application, or reliance upon the technical information provided, even if we have been advised of the possibility of such damages.