

Please Note: All screen inks can be ordered by phone or email. No shopping Cart on these items.



## UV INKS - (BF) ULTRABOND SERIES

### PRODUCT DESCRIPTION

**BF ULTRABOND** is a multipurpose UV screen ink for banner and electrostatic film applications. **BF ULTRABOND** is unique in its ability to adhere to highly plasticized vinyl banner, polyethylene banners and electrostatic vinyl films. **BF ULTRABOND**'s wide adhesion range is unmatched by all other UV 'banner' inks known to be on the market today. This provides screen printers with the opportunity to stock a single ink line for all banner applications.

### SUBSTRATES

**BF ULTRABOND** exhibits excellent adhesion to vinyl banners, electrostatic film and polyethylene banner material having treatment levels of at least 40 dynes. It also provides good adhesion to pressure sensitive vinyl, bus king vinyl, polystyrene, ABS, standard and polyethylene card stock. High density and fluted polyethylene with use of 3-5% 1534 Adhesion Promoter.

**CAUTION**  
It is the  
Printer's  
Responsibility  
to Test Ink  
Before Printing

1. Allow 24-96 hours after test printing to evaluate ink for intended application.
2. If product requires overlapping coats (i.e. multi-colours) test ink on substrate with overlapping coats.
3. Refer to M.S.D.S. for heavy metal content.

FULL TECHNICAL SHEET AVAILABLE FOLLOWS BELOW

### BF ULTRABOND PRICE LIST

| CODE NO. | DESCRIPTION                        | \$/3.78L |
|----------|------------------------------------|----------|
| BF-0064  | BF ULTRABOND CMS YELLOW GS         | 369.80   |
| BF-0066  | BF ULTRABOND CMS YELLOW RS         | 410.45   |
| BF-0101  | BF ULTRABOND PRIMROSE YELLOW       | 348.70   |
| BF-0110  | BF ULTRABOND SHADING BLACK         | 297.75   |
| BF-0111  | BF ULTRABOND LEMON YELLOW          | 329.20   |
| BF-0112  | BF ULTRABOND TINTING WHITE         | 312.85   |
| BF-0114  | BF ULTRABOND CMS ORANGE            | 440.35   |
| BF-0121  | BF ULTRABOND CMS RED YS            | 377.00   |
| BF-0123  | BF ULTRABOND MEDIUM YELLOW         | 303.00   |
| BF-0127  | BF ULTRABOND CMS VIOLET            | 383.10   |
| BF-0131  | BF ULTRABOND BRILLIANT ORANGE      | 393.00   |
| BF-0135  | BF ULTRABOND VIVID ORANGE          | 387.00   |
| BF-0141  | BF ULTRABOND FIRE RED              | 358.00   |
| BF-0151  | BF ULTRABOND SCARLET RED           | 399.35   |
| BF-0155  | BF ULTRABOND RUBINE RED            | 397.45   |
| BF-0160  | BF ULTRABOND RHODAMINE RED         | 393.60   |
| BF-0164  | BF ULTRABOND CMS RED BS            | 365.85   |
| BF-0165  | BF ULTRABOND CMS MAGENTA           | 381.60   |
| BF-0180  | BF ULTRABOND WARM RED              | 392.85   |
| BF-0190  | BF ULTRABOND PROCESS BLUE          | 337.00   |
| BF-0200  | BF ULTRABOND PEACOCK BLUE          | 339.60   |
| BF-0205  | BF ULTRABOND REFLEX BLUE           | 362.00   |
| BF-0210  | BF ULTRABOND ULTRA BLUE            | 354.70   |
| BF-0220  | BF ULTRABOND EMERALD GREEN         | 326.90   |
| BF-0225  | BF ULTRABOND FOREST GREEN          | 358.25   |
| BF-0226  | BF ULTRABOND LIME GREEN            | 352.65   |
| BF-0230  | BF ULTRABOND CMS BLUE              | 309.55   |
| BF-0235  | BF ULTRABOND TEAL                  | 336.30   |
| BF-0240  | BF ULTRABOND PURPLE                | 371.30   |
| BF-0260  | BF ULTRABOND BROWN                 | 387.45   |
| BF-0301  | BF ULTRABOND OPAQUE BLACK          | 306.35   |
| BF-0311  | BF ULTRABOND OPAQUE WHITE          | 297.00   |
| BF-0325  | BF ULTRABOND CMS GREEN             | 332.10   |
| BF-1130  | BF ULTRABOND HT BLACK              | 292.40   |
| BF-1330  | BF ULTRABOND HT YELLOW             | 384.20   |
| BF-1350  | BF ULTRABOND OVERPRINT CLEAR       | 304.60   |
| BF-1530  | BF ULTRABOND HT CYAN               | 298.50   |
| BF-1630  | BF ULTRABOND HT MAGENTA            | 381.20   |
| BF-1700  | BF ULTRABOND MIXING CLEAR          | 304.60   |
| BF-1710  | BF ULTRABOND METALLIC MIXING CLEAR | 343.25   |
| BF-1730  | BF ULTRABOND HT BASE               | 310.90   |
| BF-1800  | BF ULTRABOND THINNER               | 249.00   |

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## ULTRABOND BF PRODUCT DATA SHEET

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**Ultrabond BF** is distinct in its ability to offer non-blocking and flexibility needed for banner applications while also providing adhesion to many point-of-purchase stocks. This versatility provides screen printers an opportunity to reduce ink inventory by stocking a single ink line for most applications. Ultrabond BF's exceptional flexibility and adhesion will stand up to the demand of the most stringent finishing requirements. Ultrabond BF provides a durable, non-blocking surface and has excellent outdoor durability.

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### PERFORMANCE PROPERTIES

- ➔ Broadest adhesion range of any Inktech/Polymeric UV ink
- ➔ Flexible for sewing, grommeting and die-cutting without cracking
- ➔ Allows double face printing without re-wetting or picking
- ➔ Superior opacity provides better color trapping
- ➔ Low tack finish to eliminate slip sheeting
- ➔ Water and abrasion resistance
- ➔ NVP and heavy metal free

### RECOMMENDED SUBSTRATES

- ➔ Vinyl and Polyethylene Banner
- ➔ Electrostatic Vinyl
- ➔ Pressure sensitive vinyls
- ➔ Unsupported Vinyl
- ➔ Polystyrene
- ➔ ABS
- ➔ PETG
- ➔ Tyvek
- ➔ Many Coated Metals
- ➔ \*Fluted Polyolefins (with BF-1534)
- ➔ Card Stock and Paper
- ➔ Print Treated Polyester
- ➔ Expanded Foam PVC
- ➔ Polycarbonate (without adhesives)

\*A minimum of 40 Dynes of surface energy is recommended for Polyolefin stock.

### CURING SPECIFICATIONS

**Ultrabond BF** will cure well when printed through 355 plain weave polyester mesh or finer. Ultrabond BF's optimal cure window of 125 – 160 mJ / 550 – 650 mW is generally achieved with one 200 watt per inch mercury vapor lamp at belt speeds between 75 - 100 feet per minute. Cure speeds may vary as thicker gauge stocks and dark surface colors require more energy. Adhesion should be a minimum of 95% from curing unit with final adhesion developing within four hours of initial polymerization. Coarser fabrics can be utilized; however, curing parameters may need to be adjusted for the increased ink film. If a loss of gloss or adhesion due to insufficient cure is noticed, the addition of 5 – 10 % BF Mixing Clear will increase light penetration and improve cure. Addition of thinner will not improve cure and may cause the cure rate to decrease. Intensity of cure, weight or caliper of the material as well as elevated ambient temperatures and humidity of the printing and storage environments can influence the block resistance of stacked prints.

\* It is the printer's responsibility to pre-test and qualify the parameters, prior to each run.

### COVERAGE

**Ultrabond BF** will yield an average of 3600 to 3800 sq. ft. per gallon based on film deposit of 0.40 to 0.60 mil, dependent on color and printing conditions.

### SQUEEGEE

A 70-90 Durometer polyurethane blade is recommended.

### INK MODIFICATION

BF Mixing Clear may be added to reduce opacity thus increasing cure speed. BF Mixing Clear is not recommended for viscosity reduction. UV Universal Thinner is recommended for viscosity reduction. It is not recommended to exceed 10% by total weight as this will reduce cure rate and may affect adhesion.

### LIGHT FASTNESS

At full strength and fully cured, BF Series ink has been formulated to withstand 2-3 years of exterior exposure. The use of Overprint Clear will increase the inks outdoor durability. Factors beyond our control that may negatively impact the outdoor durability expectations include but are not limited to: substrate grade/age, poor cure of ink film, directional positioning, ink film deposit, exposure to excessive abrasives and air pollutants.

**METALLICS**

BF Metallic Mixing Clear is supplied for use in mixing metallic powders and pastes. The increase in viscosity of Metallic Mixing Clear helps insure a good particle suspension and maintain a good premix shelf life. The recommended mixing ratios are 8% by weight of silver powder and 20% of gold powder or 12% of silver paste and 28% of gold paste. For optimum coverage and opacity, 280-305 meshes are recommended. With the use of BF Overprint Clear, extended weatherability and improved non-tarnishing properties can be achieved.

**COLOR AVAILABILITY**

**Ultrabond BF** is available in twenty standard opaque colors and nine Color Matching System shades. Inktech's Color Formulating Guide reproduces over 1,000 colors utilizing the CMS shades. Custom matches, fluorescent, metallic and transparent colors are available upon request.

**STANDARD COLORS**

|                          |                               |
|--------------------------|-------------------------------|
| BF-0101 Primrose Yellow  | BF-0205 Reflex Blue           |
| BF-0111 Lemon Yellow     | BF-0225 Forest Green          |
| BF-0123 Medium Yellow    | BF-0226 Lime Green            |
| BF-0131 Brilliant Orange | BF-0210 Ultra Blue            |
| BF-0135 Vivid Orange     | BF-0220 Emerald Green         |
| BF-0141 Fire Red         | BF-0235 Teal                  |
| BF-0151 Scarlet Red      | BF-0240 Purple                |
| BF-0155 Rubine Red       | BF-0260 Brown                 |
| BF-0160 Rhodamine Red    | BF-0301 Opaque Black          |
| BF-0180 Warm Red         | BF-0311 Opaque White          |
| BF-0190 Process Blue     | BF-1350 Overprint Clear       |
| BF-0200 Peacock Blue     | BF-1710 Metallic Mixing Clear |
| UV -1800 Thinner         |                               |

**COLOR MATCHING SYSTEM COLORS**

|                       |
|-----------------------|
| BF-0064 CMS GS Yellow |
| BF-0066 CMS RS Yellow |
| BF-0114 CMS Orange    |
| BF-0121 CMS YS Red    |
| BF-0164 CMS BS Red    |
| BF-0165 CMS Magenta   |
| BF-0127 CMS Violet    |
| BF-0230 CMS Blue      |
| BF-0325 CMS Green     |
| BF-0110 Shading Black |
| BF-0112 Tinting White |
| BF-1700 Mixing Clear  |

**PROCESS COLORS**

**Ultrabond BF** four color process colors exceed "SWOP" standards. Variation in densities may be achieved with the use of BF Halftone Base.

|                           | High Density | Back-lit Density |
|---------------------------|--------------|------------------|
| BF-Halftone Yellow        | 1.10         | 1.35             |
| BF-Halftone Red           | 1.75         | 2.05             |
| BF-Halftone Blue          | 1.80         | 2.20             |
| BF-Halftone Black         | 2.00         | 2.25             |
| BF-Halftone Extender Base |              |                  |

**FLUORESCENT COLORS**

**Ultrabond BF** is available upon request in nine shades of fluorescent colors. Fluorescent pigments are not light stable. For maximum brightness and color stability, 260 – 305 mesh count is recommended.

|                    |                       |                |
|--------------------|-----------------------|----------------|
| BF-0900 Magenta    | BF-0940 Chartreuse    | BF-0970 Pink   |
| BF-0910 Orange/Red | BF-0950 Red           | BF-0980 Orange |
| BF-0920 Green      | BF-0960 Orange/Yellow | BF-0990 Blue   |

**CAUTION:**

Read Material Safety Data Sheet prior to using.

End user must determine suitability of this product for the intended use prior to production.

Always premix prior to use.