

## 3707 Dye Discharge Base & 3709 Discharge Activator-ZFS

**FEATURES:** International Coatings' 3707 Discharge Base is a clear water base binder specifically formulated to produce excellent discharge results on most reactive dyed fabrics when used with the 3709 Discharge Activator-ZFS. Use as stand alone ink or as an under base to achieve a softer hand. Anti-corrosion pigments can also be added to achieve brilliant discharge colors. 3707 has a low viscosity allowing for ease of printability on manual and automatic equipment and cleans up with water.

**RECOMMENDED FABRICS:** 3707 Discharge Base and 3709 Discharge Activator-ZFS are recommended for use on reactive dyed 100% cotton fabrics and best discharge results are obtained when using fabrics that have been specified for discharge printing applications.

**APPLICATION:** Prior to use, add 3% - 6% by weight of the 3709 Discharge Activator-ZFS to the 3707 Discharge Base. Pot life of mixed ink is approximately 6 to 8 hours. Corrosion resistant pigments, up to 10% by weight, can be added to achieve colors. Always stir in pigments first to the 3707 Base before adding the 3709 Discharge Activator.

**SCREEN MESH & EMULSION:** 86 to 110 (t/in) 34 to 43 (t/cm) monofilament. Any direct or indirect water resistant emulsion.

**PRINTING:** 3707 Discharge Base can be used as a stand alone product or as an under base.

**SQUEEGEE:** 60-70 Durometer. Sharp edge.

**CURING:** Cure at a minimum of 325°F to 350°F (163°C to 177°C) for 2-3 minutes to ensure optimum discharge of the dye and proper curing of the ink. High volume hot air dryers are recommended. Best discharge results are achieved when prints are run through the dryer immediately after printing. If the print is not completely discharged the first time through the dryer, do not stack the fabric and immediately run through the dryer again.

**CLEAN UP:** Water. Mixed discharge ink left over at the end of a printing job should be placed in a well sealed container and disposed of in accordance with local regulations.

**STORAGE:** Store at 65° F to 90° F (18°C to 32°C) Avoid storage in direct sunlight and protect against extremes of temperature. Keep containers well sealed at all times.

### PRINTING TIPS & PRECAUTIONS

- To achieve optimum discharging, ensure that the discharge agent is completely dissolved into the binder before printing.
- Add corrosion resistant pigments to the 3707 discharge base **before** adding the 3709 Discharge Activator-ZFS. Mix only the amount required for production. Activated ink should be used within 6 to 8 hours of adding the discharge agent.
- Containers should be kept tightly sealed when not in use.
- Test all fabrics before use, especially fabrics from different dye lots and/or colors. Not all fabrics are dischargeable. Results may vary on fabrics from different dye lots. Consult your garment supplier or manufacturer when a variance occurs.
- Discharge inks must be cured at the recommended temperature. Failure to do so may result in weak discharging of fabric dyes and poor wash fastness.
- Use 3% - 6% of the 3709 Discharge Activator-ZFS. The amount required will depend on the fabric used. Do not add more than 6%.
- Avoid leaving inks in the screens for prolonged periods and leave screens flooded when not printing. Even water resistant emulsions may not stand up to prolonged exposure to the discharge inks.
- Avoid folding and packing discharged fabrics immediately after printing.
- **Due to variations in fabrics, printing and drying conditions, there may be residual chemicals such as formaldehyde remaining on the printed fabrics. It is recommended that the discharged garments be washed before packaging or labeled 'Wash before wearing'.**

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