

Election Series is a UV curable screen printing ink formulated specifically for multiple substrate adhesion performance. Election is the broadest ink system of its type, offering flexibility for pressure sensitive vinyl applications with the unique versatility to adhere to nearly all point of purchase stocks, including fluted polyolefin stocks, without the addition of a catalyst.

Performance Properties

- Durable, non-block finish for double-sided prints
- Flexible for multi-layer applications/die-cutting
- Good water resistance
- Low tack finish for easy handling
- No additives required for Coroplast®
- N-VP and heavy metal free
- Outstanding adhesion to a variety of substrates
- Rapid cure rates, ideal for multi-color presses

Recommended Substrates

- Board Stock
- Coated and uncoated paper
- Expanded Foam PVC (Sintra®, Celtec®)
- Fluted Polyolefin
- Some Coated Metals
- Polyethylene Sheet
- Polystyrene
- Pressure Sensitive Vinyl
- Rigid Vinyl

*Pre-check dyne level

Curing/Processing Guidelines

Ink will cure well when printed through 355 (140cm) plain weave polyester mesh or finer. Election Series' optimal cure window of 125 - 175 mJ/cm² to a minimum of 550mW/cm², is generally achieved with one 200 watt per inch mercury vapor lamp at a belt speed of 60-70 fpm. Cure speeds may vary as thicker material and dark surface colors require more energy. Adhesion should be a minimum of 95% from curing unit with final adhesion developing within six hours of initial polymerization. Coarser fabrics can be utilized, however, cure parameters may need to be adjusted for increased ink film.

Light Fastness

Election Series was formulated as a low cost, short-term durability ink series for POP signage. Pigments used are automotive grade, which should provide good lightfastness; some chalking may be seen over time. Factors that will alter the outdoor durability of the ink include but are not limited to: substrate grade/age, poor cure of the ink film, formulas, directional positioning, ink film deposit, exposure to excessive abrasives and air pollutants.

Printing

Mix well prior to use. Care should be taken to print the ink at optimal temperature 70 - 90° F (21 - 27° C). Cool ink will heavier viscosity and will not flow properly. Hot ink will be lower in viscosity resulting in poor definition and decreased opacity.

Coverage

3,200 to 3,600 square feet per gallon based on ink deposit .40 - .60 mil dependent on color and printing conditions.

Storage

Care should be taken to store ink in tightly closed containers located in a cool (60-80°F/15-27°C) dark place. After long production runs excess ink from the screen should be properly disposed. With suitable conditions, unopened ink is expected to have a shelf life of approximately twelve (12) months from date of manufacturer.

Additives

- 1534 Adhesion Promoter up to 3% as needed
- 11939 Adhesion Promoter, 3% as needed
- 2980 Catalyst, 3% as needed (will gel in 4 hours)

Precautions

Read the safety data sheet prior to processing. It contains instructions for precautions to be taken when handling inks. If ink comes in contact with skin wipe off with a clean, dry cloth (do not use solvent). Wash and rinse the affected areas with soap and water.

Color Availability

Election Series is available in:

- 25311 Election Red (Similar to 141 Fire Red)
- 25312 Election Blue (Similar to 210 Ultra Blue, which equals Pantone Reflex Blue)
- 25313 Election Yellow (Similar to 111 Lemon Yellow)
- 25314 Election Green (Similar to 220 Emerald Green)
- 25334 Election Black

We strongly recommend a preliminary test of printing and curing on the supports intended to use, in order to ascertain exactly the procedure, the working times and the obtained effect. MIX WELL BEFORE USE. Follow the directions on the package, ask for the safety data sheets and always follow the directions contained therein.

Important – Only the correct use of the product will allow satisfactory results. For this reason, closely related to the product supplied, Polymeric must decline all direct and indirect responsibility for the proper or improper use of the product. Make certain that product is right for the desired use, work according to the instructions given in our technical data sheets. Before use contact our Technical Service in case of doubt.



Election Series

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Notwithstanding anything provided herein or any other written material to the contrary, Polymeric only warrants the purchase price and costs of installation. POLYMERIC SHALL HAVE NO LIABILITY OR OBLIGATION TO ANY USER, BUYER, PURCHASER, DISTRIBUTOR OR OTHER PERSON OR ENTITY FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED, INCLUDING WITHOUT LIMITATION, PERSONAL INJURY, LOSS OF BUSINESS, LOSS OF PROFIT, OR OTHER DAMAGE, whether or not buyer shall have informed Polymeric of the possibility or likelihood of any such damages.

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