

Uvijet ZE Adhesion Promoters



Adhesion Promoters ZE1000, ZE720 & ZE680

Improve
ink adhesion
to a
multitude
of medias

Uvijet Adhesion Promoters have been specifically developed to aid adhesion and mechanical abrasion resistance of Fujifilm's Uvijet digital ink systems onto a wider range of rigid substrates such as acrylic, PVC, Digital Grade Styrene, and Coroplast.

Uvijet adhesion promoters create a chemical bond between Uvijet digital inks and the substrate surface. Developed from Fujifilm's detailed understanding of decorating rigid materials, Uvijet adhesion promoters will modify the surface energy of the substrate and improve adhesion. These products are substrate primers, not ink additives.

The range comprises 3 products:

- Uvijet Adhesion Promoter ZE680
- Uvijet Adhesion Promoter ZE720
- Uvijet Adhesion Promoter ZE1000

Media Type	ZE-1000	ZE-720	ZE-680
Digital Grade Styrene	★		
Coroplast		★	
Vinyl Banner	★		
PVC	★		★
Polycarb Products	★		
Acrylic			★

Uvijet Adhesion Promoters Series Features

- Aid adhesion on difficult substrates
- Can be used as pre-cleaner and as a surface prep
- Choose the adhesion promoter that's right for the media
- Apply directly to the substrate

UVIJET ADHESION PROMOTER ZE1000

ZE1000 is an optically clear, fast drying solvent-based primer developed to facilitate adhesion between Uvijet UV curable digital inks and plastic materials such as Polystyrene, PVC and Vinyl Banner.

It is recommended that substrates primed with ZE1000 are printed within 20-30 minutes of treatment. Uvijet Adhesion Promoter ZE1000 is available in quart or gallon containers.

UVIJET ADHESION PROMOTER ZE720

ZE720 is an optically clear, slower drying solvent-based Uvijet onto the more difficult rigid materials such as Coroplast (Fluted Polyolefins).

Because of the inert nature of polyolefin materials the drying time for ZE720 is longer than that of ZE1000, with drying times in a well-ventilated area of 5-15 minutes required in order to achieve full adhesion. Uvijet Adhesion Master ZE720 is available in 1 kg containers.

UVIJET ADHESION PROMOTER ZE680

ZE680 is an optically clear, fast drying solvent-based primer developed to facilitate adhesion between Uvijet UV curable digital inks and plastic materials such as Gloss Rigid PVC and Acrylic.

It is recommended that substrates primed with ZE680 are printed within 4-5 hours of treatment. Uvijet Adhesion Promoter ZE680 is available in 1 kg containers.

FOR USE AS A STATIC REDUCER

ZE680 can also be used to reduce Uvijet ink drop deflection and the build up of airborne particles being attracted to the surface during printing.

FOR USE AS A CLEANER

ZE680 has also been formulated to act as a cleaner for rigid materials prior to printing. By wiping the substrate surface and leaving to dry prior to printing ZE680 will remove dirt and particulate matter, which can impact ink adhesion.

TO APPLY ADHESION PROMOTERS

- Remove any protective film from the substrate if necessary.
- Remove any excess dirt with a dry cloth.
- Soak a paper wipe such as WD-S02 paper wipe available from Fujifilm with the ZE Adhesion Promoter and wipe the entire substrate surface.
- It's important to use a clean, lint free white cloth. Failure to do so may result in yellowing or other discoloration of substrate
- Once the whole surface of the substrate has been primed allow a minimum of 5 minutes prior to printing.
- Depending on the substrate and ink film deposit the chemical bond may take upwards of 24 hours to complete.
- Print onto the primed surface

Ensure that advice detailed within the Material Safety Data Sheet on protective equipment and ventilation is followed.

The information and recommendations contained in this Technical Data Sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Technical Data Sheet out of date and users are requested to ensure that they follow current recommendations.

SPECIFICATIONS: UVIJET ADHESION PROMOTERS SERIES

Uvijet Adhesion Promoters Range

- ▶ ZE-1000/1 - Adhesion Promoter
- ▶ ZE-1000/4 - Adhesion Promoter
- ▶ ZE-720/4 - Adhesion Promoter for Coroplast
- ▶ ZE-680/4 - Adhesion Promoter for Acrylics Application Range

General Advice – Uvijet Digital Inks

- ▶ Always check the adhesion performance of Uvijet onto the selected media before committing to a print run.
- ▶ When printing clear materials prime the whole surface to avoid any optical differences in clarity.
- ▶ Corona treated materials degrade over time, so wherever possible use fresh stock.
- ▶ Under some circumstances, adhesion promoters may cause discoloration or yellowing when applied to a substrate.
- ▶ It is the responsibility of the user to determine the suitability of Fujifilm adhesion promoters with a given substrate.

Fujifilm

- ▶ Has certification to the International Environmental Standard, ISO 14001.
- ▶ Is committed to minimizing the risk to users of our products, and also to minimizing the impact of our activities on the environment, from formulation through to production and supply.
- ▶ Research & Development team, work to an in house Health, Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.

- ▶ Regularly review and monitor our impacts and activities, setting Adhesion Promoters objectives and targets as part of a continual improvement process.
- ▶ Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

Safety & Handling

Uvijet Primers

- ▶ Are not routinely tested, but are formulated to comply with the American Toy Standard ASTM F963 Safety Regulations.
- ▶ Comprehensive information on the safety and handling of Uvijet Adhesion Promoter and Adhesion Master is given in the appropriate Fujifilm Material Safety Data
- ▶ Sheets available upon request.
- ▶ Protective gloves and safety goggles are strongly recommended.

Environmental Information

- ▶ Does not contain ozone depleting chemicals as described in the Montreal Convention.

Storage

- ▶ In the interest of maximum shelf-life storage temperatures should be between 41°F and 86°F. If stored under these conditions Uvijet primers are expected to have a shelf life of 12 months from date of manufacture. Ensure that after usage lids are always replaced on containers to avoid evaporation.

The information contained in this information sheet is intended to be used as a guide to ink and substrate performance based on current knowledge, however, users should always satisfy themselves that prints will fully meet their requirements before use as results are also image dependent according to ink film weight, the substrate and the UV Lamp output.