

# SERICOL *Uvijet* ZN

UV Curable Jet Inks exclusively designed for the Zünd UVjet 215-C printer.

## Features

- Environmentally friendly
- Free from any volatile solvent
- Fast cure for high production output
- High quality pigments for optimal colour gamut
- Low odour
- Wide adhesion range
- Recommended for both internal and external applications

## Application range

The Zünd UVjet 215-C printer and the ZN inks combine to create a world of printing opportunities. The inks offer lightfast bright colours and adhere to a wide range of rigid and flexible media. Designed to decorate a wide range of uncoated media, including most major brands of plastic, polypropylene and polyethylene materials. Even suitable for decoration of uneven substrates.

## Curing

Excellent cure and adhesion are achieved immediately on printing. However, maximum adhesion, chemical, scuff and scratch resistance may not be obtained until 24 hours after printing.

The actual level of cure and adhesion will depend upon, ink thickness, substrate and print mode.

## Media and application tests

ZN inks are formulated to adhere to most materials with a surface energy level of 42 dynes/cm or higher. It is strongly recommended that all substrates are tested before use.

**The end user must determine suitability of the product for the intended use prior to production.**

## Substrate Characteristics

Certain plastics may be impregnated with lubricants which, like plasticisers, migrate impairing adhesion and block resistance for a considerable period after printing. Some substrates may be protected by films, which when removed leave glue or plasticiser.

This can often be overcome by wiping the surface with isopropyl alcohol (IPA) before printing.

Static may also occur and may be eliminated by wiping with an anti static cloth before printing.

## Complementary screen products

A range of compatible primers are available in white, opaque and clear providing an optimal base coat for the Uvijet ZN ink. Uvijet ZN inks have good chemical resistance and excellent abrasion resistance, however for optimum resistance screen-printable over-varnishes are also available.

## Outdoor durability/lightfastness

Accelerated weathering tests have been carried out in a Xenon Arc Weatherometer set to the SAEJ1960 standard. Under these conditions the accelerated weathering of Uvijet ZN inks equates to minimum 24 months outdoor exposure in a temperate climate, such as central Europe. The pigments used have a blue wool scale of 7-8.

## Availability

The ZN ink range is available as a 4-colour process set

Code	Description	Zünd part no.
ZN215	Cyan	V400.150
ZN135	Magenta	V400.151
ZN052	Yellow	V400.152
ZN004	Black	V400.153
QV017	Flushing Solution	V400.154

Available in 5kg containers only from authorised Zünd distributors.

## Storage

Uvijet ZN should not be stored in direct sunlight or near warm pipes and should be kept away from peroxide. Storage temperature should be between 10°C and 30°C. Shelf-life is approx. 12 months from date of manufacture, when stored under these cool conditions.

## Safety and Handling

### Uvijet ZN Inks

- Are free from n-Vinyl-2-pyrrolidone, which is suspected of causing cancer.
- Do not have a flash point and therefore are exempt from the Highly Flammable Liquid Regulations.
- Are formulated free from lead and other heavy metals.

Comprehensive information on the safety and handling of Uvijet inks is given in the appropriate Sericol Safety Data Sheets available upon request.

## Environmental Information

### Uvijet ZN Inks

- Do not contain ozone-depleting chemicals as described in the Montreal Convention.
- Are formulated free from aromatic hydrocarbons known to have an adverse effect on the environment.
- Are free from any volatile solvent and therefore beneficial to the environment when compared to solvent-based products.



The information and recommendations contained in this Product Information 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 Product Information sheet out of date and users are requested to ensure that they follow current recommendations.

**Sericol Imaging**

The Inkjet Division of Sericol

Tel: 01793 615386  
Fax: 01793 619251  
email: sales.sericolimaging@sericol.com  
ISDN: 01793 430460

**ZÜND**  
Swiss Printing & Cutting Systems

Zünd Systemtechnik AG

Altstätten, Switzerland  
Tel: +41 71 757 8100 • Fax: +41 71 755 8111  
email: info@zund.com  
http://www.zund.com

PRINTED IN ENGLAND 1653/R2

PRODUCT INFORMATION