

# Technical Information

## Frimpeks UV Curable Varnishes

12144 UV COATINGS GLOSS 11180-INL/FS/HS

### Product Information

12144 is a UV curable coating specially designed to work on Offset and Flexographic applications. It is typically used on offset presses with both in-line and off-line capability. Typically this coating has outstanding flow and leveling properties and has excellent curing capability. It creates an even, smooth surface with high gloss and high scuff resistance, with superior flexibility for scoring and folding.

### Typical End Use

Magazines, Posters, Brochures, Leaflets, Packaging, Labels

### Typical Properties

Fast Curing, High Slip, Solvent Free, can be further processed immediately.

### At a Glance

Gluable/Imprintable	No
Flexibility	Very Good
Suitable Hot Stamping	No
Suitable for In-Line	Yes
Can be Applied via Pump	Yes
Suitable Direct Food Contact	No

### Technical Data

Viscosity @ 22°C Ford Cup	70 – 80 sec
Reactivity with 120 W/cm <sup>2</sup> Lamp	50mj/cm <sup>2</sup>
Solid Content	100%

Liquid Appearance	Hazy
Odor	Typical
Cured Appearance	Clear film
Gloss	90+ at 60° Reflection

### Recommended Application

This coating is designed to be applied through various application systems including roller coater, flexo, letter-press, and roll-to-roll offset presses. It is also recommended for sheet-fed offset presses running with in-line UV coating capabilities. The use of a water-based primer to achieve greater coating qualities is advised. Recommended application is approximately 3-4 gr/m<sup>2</sup> in order to get the optimal performance.

### Processing

Stir properly for longer time under high shear, making sure that equipment is clean in order to avoid contamination from other materials.

### Equipment and Drying

This coating is designed to be cured at 50mj/cm<sup>2</sup> with 1-120 Watt/cm<sup>2</sup> lamp. Greater press speed and curing capability may be achieved with additional UV lamps. Substrate may also have an effect on cure speed. Always test coating for compatibility with ink systems, substrates and for sufficient cure before general use.

### Cleaning

Appliance and other equipment can be cleaned with alcohol or other UV cleaning products.

### Shelf Life and Storage Conditions

UV Products must be stored tightly closed, away from sunlight. The optimal storage temperature is between 5°C and 35°C. UV Products are packaged leaving sufficient air space to prevent accidental polymerization of the product. NORMAL STORAGE DURATION: 1 year

### Safety

UV Products are generally considered to be non-toxicological. However during handling and use the user should avoid inhalation of vapors as well as direct eye or skin contact. UV products can be an irritant to skin and eyes, wash immediately with soap and water if there is direct contact. Protective eyewear and latex gloves are recommended while using this product. Consult the SDS for additional handling and safety information.

### Packaging

This product is available in:  
20 KG pails  
200 KG Iron Drums  
1000 KG IBC

### Transportation

Non-dangerous goods. Can be transported in freezing temperatures but product should be brought to room temperature prior to use.

#### Disclaimer:

The statements listed on this publication are according to our best knowledge. The statements do not exonerate the user from their own responsibility to determine that our products are suitable for their processes. They are intended to inform and advise and are subject to influence from the technical process.

This edition of April 29, 2023 replaces all previous editions. With the present edition all older editions are null and void.