

# Technical Information

## Frimpeks UV Curable Varnishes

### 102890 UV COATINGS DIGITAL GLOSS 38005-INP

#### Product Information

102890 is a UV curable Benzophenone-free coating specially designed for Offline coating over digital printed sheets. This product showed excellent results on most of the brands in the market, with outstanding flow properties and high curing capability. The adhesion and leveling must be checked by end user as printing property may be varying from brand to brand.

#### Typical End Use

Magazines, Posters, Brochures, Leaflets, Packaging, Labels

#### Typical Properties

Imprintable, Solvent Free, can be further processed immediately

#### At a Glance

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

#### Technical Data

Viscosity @ 22°C Ford Cup	60 – 70 sec
Reactivity with 120 W/cm <sup>2</sup> Lamp	60mj/cm <sup>2</sup>
Solid Content	100 %

Liquid Appearance	Gardner 5
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, letterpress, and roll-to-roll offset presses.

Preliminary testing for hot stamping is recommended.

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 60mj/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 5, 2023 replaces all previous editions. With the present edition all older editions are null and void.

#### Frimpeks Kimya ve Etiket Sanayi Ticaret A.S.

Velimeşe Organize Sanayi Bölgesi Mah. 236. sok. No:7/1 Ergene - Tekirdağ/ Turkey  
T +90 282 674 5200 - frimpeks.com - uv@frimpeks.com