



## DOWSIL™ Print 041 Textile Printing Ink Binder

Acrylic hybrid emulsion printing ink system with soft hand feel, good elongation & crocking fastness for textile screen printing

### Features & Benefits

DOWSIL™ Print 041 Textile Printing Ink Binder has been developed based on the requirements for screen printing inks on textiles. When properly formulated & applied, screen printing inks made from DOWSIL™ Print 041 Textile Printing Ink Binder offer:

- Very soft, low-tack touch
- Manufactured without PVC and phthalates
- High elongation
- Excellent wash durability
- Ironable

### Applications

- Screen printing on cotton and synthetic textiles, particularly highly elastic garments

### Typical Properties

Specification Writers: These values are not intended for use in preparing specifications. These are typical properties, not to be construed as specifications.

Property	Result
Appearance	Milky white
Polymer type	Acrylic Hybrid
Tg (onset)	-36°C
Solid, by weight, %	52.0–53.0
pH	8.2–9.4
MFFT, °C	< 0
Density (wet) g/cm <sup>3</sup>	1.03
Viscosity (#2, 60 rpm, 25°C)	< 500 mPa.s

### Handling Precautions

Before using this product, consult the Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage. CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards. (highlight this section) CAUTION! Failure to maintain proper volume level when using immersion heaters can expose tank and solution to excessive heat resulting in a possible combustion hazard, particularly when plastic tanks are used.

## **Usable Life and Storage**

DOWSIL™ Print 041 Textile Printing Ink Binder should be stored at temperatures between 5°C & 49°C in tightly sealed containers. Avoid freezing of the material! Local legislation on storage must be followed. DOWSIL™ Print 041 Textile Printing Ink Binder is protected against microbial attack during transportation and storage in unopened original packaging. To avoid problems with microbial attack during processing and in opened packaging attention should be paid to hygiene.

We recommend using the product under safety precautions as described in the SDS. Avoid contact with eyes & skin. Large quantities should be handled in a correctly ventilated area. Material can create slippery conditions.

Please Mix material before use , if using part quantity material from drum or IBC.

## **Limitations**

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## **Health and Environmental Information**

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, [dow.com](http://dow.com) or consult your local Dow representative.

## **Disposal Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

## **Product Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

## **Customer Notice**

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

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