

# TECHNICAL DATA SHEET

## Fushixin Ink DP-R

Reactive Digital Printing Thickener / Paste Additive

<b>Product Name</b>	Fushixin Ink DP-R	<b>Document Type</b>	TDS
<b>Company</b>	Foshan Fushixin Polymer Fiber Co., Ltd	<b>Issue Date</b>	20 Jun 2026
<b>Brand</b>	FSX Chemical	<b>Revision</b>	Rev. 03
<b>Product Category</b>	Reactive Digital Printing Thickener / Paste Additive	<b>Status</b>	For Customer Reference
<b>CAS No.</b>	Mixture / Not assigned	<b>Chemical Characterization</b>	Modified starch-based proprietary mixture

### 1. Product Description

Fushixin Ink DP-R is a modified starch-based reactive digital printing thickener / paste additive designed for reactive inkjet printing on cotton, viscose, Tencel, Modal, silk and wool. It helps control ink migration and bleeding, supports sharper print definition and contributes to improved color yield under suitable fixation and steaming conditions.

### 2. Typical Technical Specifications

Parameter	Specification
<b>Product Type</b>	Reactive digital printing thickener / paste additive
<b>Composition</b>	Modified starch-based proprietary mixture for textile printing
<b>Ionic Nature</b>	Anionic
<b>Appearance</b>	White to beige powder
<b>pH (1%)</b>	7-9
<b>Viscosity</b>	2,400-2,800 mPa·s (3.0% aqueous solution, 25 °C)
<b>Solubility</b>	Soluble in cold water under proper high-shear stirring
<b>Recommended Dosage</b>	25-30 g per 1,000 g printing paste as a reference guideline
<b>Application Range</b>	Reactive digital textile printing on cotton, viscose, Tencel, Modal, silk and wool

Testing note: Typical values only. Viscosity may vary according to concentration, temperature, hydration time, spindle, speed and testing method.

### 3. Key Advantages

- Helps improve color yield and print sharpness in reactive digital textile printing.
- Helps reduce ink migration, bleeding and edge fuzziness.
- Broad fibre compatibility: cotton, viscose, Tencel, Modal, silk and wool.
- Supports stable paste preparation and dependable processing consistency.
- Easy wash-off with good final hand feel under proper processing conditions.
- Suitable for APEO-free formulation systems when used with appropriate auxiliaries.

## 4. Recommended Applications

- Reactive digital textile printing on cotton, viscose, Tencel, Modal, silk and wool.
- Preparation of digital printing paste / thickener systems for reactive inkjet printing.
- Laboratory evaluation and formulation adjustment before bulk production.

## 5. Formulation / Process Guidance

Recommended Paste Guideline	Reference Dosage
<b>Water</b>	Balance
<b>Urea</b>	50-200 g
<b>Sodium bicarbonate</b>	20-30 g
<b>Resist salt</b>	2-4 g
<b>Fushixin Ink DP-R</b>	25-30 g
<b>Total</b>	1,000 g printing paste

Process note: Slowly add Fushixin Ink DP-R into cold water under high-shear stirring and continue mixing until the paste is fully hydrated and uniform. The formulation is a general guideline and should be adjusted according to fabric type, ink system, steaming/fixation conditions and printing equipment.

## 6. Packaging and Storage

- Standard packing reference: 25 kg net per bag; pallet packing available upon request.
- Store in a cool, dry and well-ventilated warehouse.
- Keep package sealed after opening and avoid direct moisture exposure during storage and transportation.
- Recommended shelf life: 12 months from production date under proper storage conditions.

## 7. Handling Notes

- Avoid dust generation during weighing and preparation. Use appropriate personal protective equipment when dust exposure may occur.
- Actual dosage should be adjusted according to fabric type, ink system and printing equipment.
- For safety, transportation, storage and regulatory information, refer to the relevant SDS/MSDS.

Disclaimer: The information provided in this document is based on current technical knowledge and practical application experience. It is provided for customer reference only and does not constitute a warranty of final application performance. Customers should conduct their own tests to confirm suitability under actual production conditions.

## Contact Information & Export Support

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Export support: TDS / COA, SDS/MSDS, sample labels, sample list and customized packing can be provided upon request.

For samples or quotation, please share your fabric type, ink system, printing process and target performance.