

## TECHNICAL DATA SHEET

# Fushixin PrintCN-R

CMS-based Textile Printing Thickener for Reactive Printing

<b>Product Name</b>	Fushixin PrintCN-R	<b>Document Type</b>	TDS
<b>Company</b>	Foshan Fushixin Polymer Fiber Co., Ltd	<b>Issue Date</b>	22 Jun 2026
<b>Brand</b>	FSX Chemical	<b>Revision</b>	Rev. 04
<b>Product Category</b>	Reactive Printing Thickener (CMS)	<b>Status</b>	For Customer Reference
<b>Chemical Basis</b>	Sodium Carboxymethyl Starch (CMS)	<b>CAS No.</b>	9063-38-1

## 1. Product Description

Fushixin PrintCN-R is a CMS-based textile printing thickener designed for reactive printing on cotton and viscose fabrics. It supports high color yield, excellent print sharpness, stable paste performance and practical wash-off under appropriate process conditions.

## 2. Typical Technical Specifications

Parameter	Specification
<b>Appearance</b>	White powder
<b>Ionic Nature</b>	Anionic
<b>Stock Paste Concentration</b>	5%
<b>Reference Viscosity</b>	70,000-90,000 mPa·s (5% aqueous solution, 25 °C)
<b>P.V.I. (Printing Viscosity Index)</b>	Min. 0.23
<b>pH (1%)</b>	7.0-8.0 (1% aqueous solution)
<b>Moisture Content</b>	Max. 10.0%
<b>Solubility</b>	Soluble in cold water

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

## 3. Key Advantages

- High color yield and bright shade in reactive printing.
- Excellent print sharpness and clean outline definition.
- Good screen penetration; suitable for rotary and flat-screen printing.
- Stable paste performance with practical electrolyte compatibility.
- Cost-effective alternative to alginate in selected reactive printing systems.
- Good compatibility with common reactive dyes and printing auxiliaries

## 4. Recommended Applications

- Reactive dye printing on cotton, viscose and other cellulosic fabrics.
- Rotary-screen printing and flat-screen printing processes.
- Recommended for customers requiring stable color yield and clean print definition.



## 5. Formulation / Process Guidance

### Stock Thickener Preparation

Component	Reference Addition
Fushixin PrintCN-R	5%
Water	95%
Total	100%

### Typical Reactive Color Paste (for reference)

Component	Reference Addition
Stock thickener	60-70%
Urea	10-20%
Resist salt	1%
Sodium bicarbonate	2-3%
Reactive dyes	X%
Water	Balance
Total	100%

The formulation is a general guideline only. Actual dosage should be adjusted according to dye system, fabric type, printing method, target viscosity and customer process conditions.

## 6. Packaging and Storage

- Standard packing reference: 25 kg net multi-layer kraft paper bag with inner PE moisture-proof liner.
- Export labels and pallet packing are available upon request.
- Store in a cool, dry and well-ventilated warehouse; avoid humidity and direct sunlight.
- Keep bags tightly sealed after opening to prevent moisture absorption.
- Recommended shelf life: 12 months from production date under proper storage conditions.

## 7. Handling Notes

- Slowly add powder into cold water under high-shear stirring to avoid clumping.
- Continue stirring until fully hydrated before use.
- Avoid dust generation during handling and keep the working area clean and ventilated.

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.

## 8. 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, printing process and target performance.