TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

FIXTHRA™ Series – FIXTHRA RKF

Fixing Agent – Strong Cationic Fastness Improver
Manufacturer: Tusi Haytham Bio Limited

Product Description:

FIXTHRA RKF is a high-performance cationic fixing agent designed to improve wet and dry fastness of a wide range of reactive, direct, and acid dyes.
It provides strong dye fixation, reduces dye bleeding, and enhances color uniformity, though slight shade modification may occur due to its cationic nature.
Ideal for fabrics requiring high fastness performance under rigorous washing or finishing conditions.

Key Performance Properties:

- **Strongly improves wet and dry fastness of multiple dye classes.**
- **Reduces dye bleeding and migration during washing or finishing.**
- **Enhances color uniformity and brightness, with potential minor shade change.**
- **Compatible with most textile auxiliaries, particularly for reactive and acid dyes.**
- **Minimizes fabric damage and maintains hand feel.**

Typical Properties:

Property	Specification
Appearance	Clear to light amber liquid
pH (25 °C)	5.5 – 7.5
Ionic Nature	Strong cationic
Solubility	Fully soluble in water
Stability	Stable under normal dyeing and fixing conditions
Specific Gravity (25 °C)	1.03 ± 0.02

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Application:

- **Add FIXTHRA RKF to the dye bath or post-dyeing fixing bath.**
- **Typical dosage: 0.3 – 1.5 % owf, depending on fabric type, dye class, and desired fastness level.**
- **Operate at 50–80 °C for 15–30 minutes with gentle agitation.**
- **Rinse thoroughly after treatment to remove excess chemicals and unfixed dyes.**
- **Perform preliminary lab trials to assess potential shade shifts.**

Precautions:

- **Avoid contact with eyes and skin; wear protective gloves and goggles.**
- **Do not mix with strong acids, oxidizers, or incompatible chemicals in concentrated form.**
- **Store in tightly sealed containers in a cool, dry place.**

Packing Size:

Available in 25 kg, 60 kg, and 120 kg HDPE drums.

Storage:

- **Store in a cool, dry, ventilated area below 40 °C.**
- **Shelf life: 12 months from the date of manufacture in unopened containers.**
- **Check product label for “Best use before end” date.**

Issued by:

Tusi Haytham Bio Limited – Technical Division
Product: FIXTHRA™ Series – FIXTHRA RKF
Category: Strong Cationic Fixing Agent for Fastness Improvement