TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

FIXTHRA™ Series – FIXTHRA PRO

Fixing Agent – Reactive Dye Fastness Improver
Manufacturer: Tusi Haytham Bio Limited

Product Description:

FIXTHRA PRO is an advanced fixing agent designed to improve wet and dry fastness of fabrics dyed with reactive dyes.
It ensures enhanced dye fixation, uniform color, and reduced dye bleeding, resulting in high-quality finished fabrics suitable for cotton, blends, and other reactive dyeable materials.

Key Performance Properties:

- **Improves wet and dry fastness of reactive dyes.**
- **Reduces dye bleeding and migration during washing.**
- **Enhances color uniformity and brightness.**
- **Compatible with common reactive dye auxiliaries and dyeing processes.**
- **Non-damaging to fabric, hand, or appearance.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
pH (25 °C)	6.5 – 8.0
Ionic Nature	Nonionic / Anionic blend
Solubility	Fully soluble in water
Stability	Stable under normal dyeing and fixing conditions
Specific Gravity (25 °C)	1.02 ± 0.02

Application:

- **Add FIXTHRA PRO to the dye bath or post-dyeing treatment for reactive dyes.**
- **Typical dosage: 0.5 – 2.0 % owf, depending on fabric type, dye concentration, and desired fastness level.**
- **Operate at 50–90 °C with gentle agitation for 15–30 minutes.**
- **Rinse thoroughly after treatment to remove unfixed dyes and residual chemicals.**
- **Compatible with other dyeing auxiliaries and washing agents.**

Precautions:

- **Avoid contact with eyes and skin; wear protective gloves and goggles.**
- **Do not mix with strong acids 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 PRO
Category: Fixing Agent for Reactive Dye Fastness Improvement