TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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FIXTHRA™ Series – FIXTHRA WRI

Wet Rubbing Fastness Improver
Manufacturer: Tusi Haytham Bio Limited

Product Description:

FIXTHRA WRI is a specialized auxiliary designed to improve wet rubbing fastness of dyed and printed fabrics. It minimizes dye transfer during wet contact, maintains color integrity, and ensures high-quality fabric appearance in finished textiles.
Suitable for cotton, polyester, and blended fabrics, as well as reactive, disperse, and direct dyes.

Key Performance Properties:

- **Improves wet rubbing fastness and reduces color bleeding.**
- **Enhances color uniformity and durability during wet handling.**
- **Compatible with various dye classes and textile auxiliaries.**
- **Maintains fabric hand and softness.**
- **Reduces fabric rework and improves product quality.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
pH (25 °C)	6.0 – 8.0
Ionic Nature	Nonionic / Cationic blend
Solubility	Fully soluble in water
Stability	Stable under normal textile processing conditions
Specific Gravity (25 °C)	1.02 ± 0.02

Application:

- **Add FIXTHRA WRI to the post-dyeing wash, soaping, or finishing bath.**
- **Typical dosage: 0.5 – 2.0 % owf, depending on fabric type and dye class.**
- **Operate at 40–80 °C for 15–30 minutes with gentle agitation.**
- **Rinse thoroughly after treatment.**
- **Compatible with other auxiliaries and fixing agents.**

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 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 WRI
Category: Wet Rubbing Fastness Improver