TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

HYTHASOL™ Series – Hythasol ECO 14

SUSTAINABLE BIO-WETTING AGENT

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Hythasol ECO 14 is a next-generation, sustainable bio-based wetting agent designed for textile and industrial applications requiring excellent wetting, rapid penetration, and minimal environmental impact.
Formulated from renewable and biodegradable raw materials, it provides superior wetting performance comparable to conventional surfactants while maintaining excellent stability under a wide range of processing conditions.
Hythasol ECO 14 is suitable for use in pretreatment, dyeing, and finishing processes across all fiber types.

Key Performance Properties:

- **Derived from plant-based, renewable materials – environmentally friendly and biodegradable.**
- **Excellent wetting, emulsifying, and penetrating performance.**
- **Low foaming and rapid wetting properties under acidic to neutral conditions.**
- **Stable in high temperature, acid, alkali, and hard-water conditions.**
- **Compatible with a wide range of surfactants and processing chemicals.**
- **Promotes uniform dyeing and improved process efficiency.**

Typical Properties:

Property	Specification
Appearance	Pale yellow to colorless clear liquid
pH (25 °C)	6 ± 1
Ionic Nature	Nonionic / bio-based surfactant blend
Water Miscibility	Completely soluble in water

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Property	Specification
Foam Character	Low foaming
Stability	Stable to acids, alkalis, electrolytes, and hard water

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Application:

Hythasol ECO 14 can be applied in both exhaust and continuous textile processes.

- **Exhaust process: 0.5 – 1.0 g/L**
- **Continuous process: 2 – 5 g/L**

For optimal results, determine the appropriate concentration through laboratory sampling depending on fabric type and process conditions.

Precautions:

- **Avoid direct mixing with strong acids or alkalis.**
- **If slight foaming occurs, a small amount of compatible defoamer may be added.**
- **Store tightly closed to avoid contamination and moisture uptake.**

Packing Size:

Hythasol ECO 14 is available in 60 kg and 120 kg closed-mouth HDPE drums.

Storage:

- **Maximum temperature during storage and transportation: 40 °C.**
- **Store in a cool, dry, and well-ventilated area away from direct sunlight.**
- **Shelf life: 6 months in original sealed container.**
- **The “Best use before end” date is indicated on each batch label.**

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Issued by:

Tusi Haytham Bio Limited – Technical Division

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Category: Sustainable Bio-Wetting Agent