TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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TUSHFIN™ Series – Tushfin WOR
Water & Oil Repellent – Textile Finishing Applications

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Tushfin WOR is a high-performance water and oil repellent designed to impart durable hydrophobic and oleophobic properties to textiles. It enhances stain resistance, maintains fabric hand, and improves garment longevity without compromising breathability or drapability. Ideal for garments, upholstery, and technical textiles.

Key Performance Properties:

- **Provides durable water and oil repellency on treated fabrics.**
- **Enhances stain resistance and ease of cleaning.**
- **Maintains fabric softness, drapability, and handfeel.**
- **Compatible with cotton, polyester, blends, and other textile fibers.**
- **Suitable for padding, coating, and exhaust finishing processes.**

Typical Properties:

Property	Specification
Appearance	Milky white to pale yellow emulsion
Solid Content	25 – 35 %
pH (25 °C)	5.5 – 7.5
Solubility	Dispersible in water
Stability	Stable under normal storage and processing conditions

Application:

- **Apply Tushfin WOR via padding, coating, or exhaust finishing.**
- **Typical pickup: 5 – 15 % owf depending on fabric type and desired repellency level.**
- **Dry or cure fabric according to process requirements for optimum water and oil repellency.**
- **Compatible with softeners, anti-pilling agents, and other finishing auxiliaries; optimize via lab trials.**

Precautions:

- **Avoid direct contact with eyes and skin; wear protective gloves and eyewear.**
- **Store in tightly sealed containers away from extreme heat and direct sunlight.**
- **Do not mix with strong acids or oxidizing agents without proper dilution.**

Packing Size:
Available in 25 kg, 60 kg, and 200 kg HDPE drums.

Storage:

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

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: TUSHFIN™ Series – Tushfin WOR
Category: Water & Oil Repellent – Textile Finishing Applications