TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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TUSHFIN™ Series – Tushfin UVP
UV Protection Agent – Textile Finishing Applications

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Tushfin UVP is a high-performance UV protection agent designed to block harmful ultraviolet (UV) rays and provide long-lasting protection to textiles. It helps prevent fabric fading, maintains garment color vibrancy, and protects skin from UV exposure. Suitable for outdoor clothing, sportswear, home textiles, and technical fabrics.

Key Performance Properties:

- **Provides durable UV protection for treated fabrics.**
- **Maintains fabric softness, drapability, and handfeel.**
- **Compatible with cotton, polyester, blends, and other textile fibers.**
- **Resistant to multiple washing cycles and normal textile processing.**
- **Suitable for padding, coating, or exhaust finishing processes.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
Solid Content	10 – 20 %
pH (25 °C)	5.5 – 7.5
Solubility	Fully miscible in water
Stability	Stable under normal storage and processing conditions

Application:

- **Apply Tushfin UVP via padding, coating, or exhaust finishing.**
- **Typical pickup: 3 – 10 % owf depending on fabric type and desired UV protection.**
- **Dry or cure fabric according to process requirements for optimum UV protection.**
- **Compatible with softeners, water/oil repellents, and other finishing auxiliaries; optimize via lab trials.**

Precautions:

- **Avoid direct contact with eyes and skin; wear protective gloves and eyewear.**
- **Do not mix with strong acids or oxidizing agents without proper dilution.**
- **Store in tightly sealed containers to maintain product quality.**

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 UVP
Category: UV Protection Agent – Textile Finishing Applications