TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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THIXA™ Pro Series – Thixa Pro DPT
Alkali-Resistant / Disperse Thickener – Textile & Coating Applications

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Thixa Pro DPT is a high-performance alkali-resistant thickener designed for disperse dye printing and coating applications. It provides excellent viscosity stability in alkaline conditions, ensures uniform paste deposition, and improves print definition on synthetic fibers such as polyester. Ideal for high-performance textile printing and finishing processes.

Key Performance Properties:

- **Alkali-resistant, suitable for disperse dye printing.**
- **Provides smooth, consistent viscosity and uniform paste application.**
- **Enhances print definition and color sharpness.**
- **Compatible with pigments, dyes, and common textile auxiliaries.**
- **Stable under varying temperature and shear conditions.**

Typical Properties:

Property	Specification
Appearance	White to off-white viscous liquid
Solid Content	20 – 30 %
pH (25 °C)	7.5 – 9.0
Viscosity (25 °C)	500 – 2000 mPa·s
Solubility	Fully miscible in water
Stability	Stable under normal storage and processing conditions

Application:

- **Add Thixa Pro DPT to water-based disperse dye pastes or coatings to achieve desired viscosity.**
- **Typical addition: 0.5 – 5 % owf depending on application and desired thickness.**
- **Stir or mix thoroughly to ensure uniform dispersion.**
- **Compatible with other auxiliaries; optimize via lab trials for best results.**

Precautions:

- **Avoid direct contact with eyes and skin; wear protective gloves and eyewear.**
- **Do not mix with strong 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
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Category: Alkali-Resistant / Disperse Thickener – Textile & Coating Applications