TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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THIXA™ Pro Series – Thixa Pro NTR
Natural / Biopolymer Thickener – Textile & Coating Applications

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Thixa Pro NTR is a high-performance natural/biopolymer thickener designed for water-based textile and coating applications. It provides excellent thickening efficiency, eco-friendly formulation, and smooth application while maintaining compatibility with a wide range of dyes, pigments, and textile auxiliaries. Ideal for sustainable textile processing and environmentally conscious manufacturing.

Key Performance Properties:

- **Efficiently thickens water-based formulations using natural biopolymers.**
- **Provides smooth, uniform viscosity and enhanced print definition.**
- **Eco-friendly and biodegradable, suitable for sustainable processes.**
- **Compatible with pigments, dyes, and other textile or coating auxiliaries.**
- **Maintains performance under varying temperature and shear conditions.**

Typical Properties:

Property	Specification
Appearance	Off-white to pale yellow viscous liquid
Solid Content	15 – 25 %
pH (25 °C)	6.0 – 8.0
Viscosity (25 °C)	500 – 1500 mPa·s
Solubility	Fully miscible in water
Stability	Stable under normal storage and processing conditions

Application:

- **Add Thixa Pro NTR to water-based inks, coatings, or textile pastes 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 common additives; 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 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
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Category: Natural / Biopolymer Thickener – Textile & Coating Applications