MANTA

Technical Data Sheet

Version: 1.0

Manta WS370

Fluorine-Free Water-Repellent Emulsion

Description

Manta WS370 is a water-based, silicone-modified, fluorine-free water-repellent emulsion with a nanometer particle size. It can be easily diluted with water and applied directly at room temperature. It is designed for water-repellent finishing of textiles and leather.

Typical Physical Properties

Manta Code:	WS370
Appearance:	Translucent milky white liquid
PH Value:	4-7
Ionic Type:	Weakly cationic
Miscibility:	Fully miscible

Features & Benefits

- Textile Enhancement: Provides woven and knitted fabrics with excellent water droplet roll-off properties, while imparting a soft, drapable, and elastic hand feel. Improves the wash-and-wear properties, crease recovery angle, sewability, and tear strength of treated fabrics.
- Eco-Friendly: 100% fluorine-free (PFAS-free) formulation, meeting stringent environmental standards.

Applications

1. Textiles and Leather: Durable water-repellent (DWR) finishing for outdoor apparel, technical fabrics, and leather treatments.

Application Guidelines

1. Textile Padding Process:

Dilute Manta WS370 with deionized water to a working concentration of 30–80 g/L, depending on the specific fabric. Dry and cure the treated fabric at 150°C – 180°C for 0.5 to 3 minutes. If 6–10 g/L of a cross-linking agent is added to the finishing bath, it can further enhance both the water-repellent performance and wash durability.

Packaging

In 200kg drum

Notice

This product provides strong water-repellent properties. Before using it in combination with other textile additives (especially anionic auxiliaries) or for other purposes, please test suitability before use.

Storage & Transport

Protect from direct sunlight. Shelf life is 6 months. It can be transported as a non-hazardous chemical.

Contact Information

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