

Altopel F³

Fluorine Free Durable Water Repellent(FFDWR)



ALTOPEL F³ is a fluorocarbon-free aqueous finish based on a hydrophobe-fortified reactive polymer designed to impart high water repellency together with excellent wash durability to cotton and synthetic fibers including nylon, rayon, aramid, and polyester. **ALTOPEL F³** is designed for pad application and also can be foamed or thickened for single-side application.

Physical Properties:

- Appearance: white liquid
- pH: 3.00 - 5.00
- Ionic Nature: Cationic
- Chemical Structure: Reactive hydrophobic polymer dispersion
- Solids: 24-26%
- Viscosity: <100 cps at 70°F.

Advantages:

- Produces excellent water repellency with durability to washing
- Aqueous-based stain resistance
- bluesign®-approved
- Fluorocarbon-free, VOC-free
- Economical one-part concentrate
- Minimal yellowing
- Simple mill processing

Procedure:

A bath concentration of 2.0 - 8.0 % owb is normally adequate for most applications. **ALTOPEL F³** concentrate should be mixed well before dispensing and added to pad bath formulation with moderate agitation. Bath pH should be adjusted to between 4-5 for optimal results.

ALTOPEL F³ can generally be used with many coating or finishing chemicals; however, laboratory testing for compatibility is suggested.

The treated fabric should be dried between 250 to 350 °F for 1 to 2 ½ min. Curing finished goods at between 350 to 360°F for 1-2 min improves durability.

Storage:

Protect from freezing. Stir well before use. Storage stability = 6 months when stored in original containers at temperatures between 40-80°F. Storage temperatures in excess of 90°F will lead to accelerated viscosity increase.

Information contained in this technical data sheet is up-to-date and correct to the best of our knowledge at the date of issue and are subject to change. As Organic Dyes and Pigments LLC cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. Organic Dyes and Pigments LLC will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. No express or implied warranties are given. Released: 09/24

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