

Product Description

DryWired® Textile Shield is a revolutionary non-toxic super-hydrophobic nanocoating that can be applied as a transparent spray or liquid dip to natural and synthetic textiles. Unlike other hydrophobic fluorocarbon based textile coatings, Textile Shield is breathable, bio-compatible, completely inert and food safe. In laboratory testing, Our Textile coating achieved 150 degree super-hydrophobic contact angles on natural and synthetic textiles. In addition, Textile Shield is resistant to harsh detergents and demonstrates excellent self-cleaning properties with continuous performance up to 30 washes. Textile Shield is only 100-150 nm in thickness (approximately 800 times thinner than a human hair).

Intended Uses

- Cotton
- Suede
- Canvas
- Corduroy
- Flannel
- Wool
- Silk
- Linen
- Polyester

Features

- Water-based
- Water-repelling
- Oil-repelling
- Blocks stains
- Easy-to-clean effect
- Protection of fibers from the infiltration of dirt
- Odorless
- Invisible to the human eye
- Breathable
- Simple spray application (trigger sprayer included)
- Washing and cleaning agent resistance
- Lasts up to 30 washes (with Crosslinker)
- Temperature resistant
- UV Stable

Application

Surface Preparation	Textile must be completely free of all contaminants including anionic, surfactant residues. Silicones and surfactants impair performance and adhesion. Textile must be completely dry before coating application.
Application	<p>Padding: Ideal for production scale applications before garment assembly.</p> <p>Spray-on application: Ideal for production scale applications after garment assembly or after-market solutions for garments, furniture, carpets, etc.</p>
Dry Time	Less than 24 hours. Drying can be accelerated with heat up to 150°C.
Cure Time	About 24 hours at ambient conditions. Cure can be accelerated with heat up to 150°C.
Coverage	30 -400 ml/10ft ² (1m ²) – dependent on absorbency of the substrate.

Safety, Handling & Storage

When stored under conditions between 38°F - 86°F (3°C - 30°C) in the original, unopened container, the shelf life is two years. Before using this product, please read the current product Material Safety Data Sheet (available through your sales representative or at www.DryWired.com) and the precautionary statement on the product package. Follow all applicable precautions and directions.

Certifications



Additional Information

To request additional product information or sales assistance, contact DryWired at 1-800-581-4528 or visit www.drywired.com.

Physical Properties

Property	Solution
Appearance	Yellow - Clear Liquid
Solvent	Water
Odor	Unscented
Density	1.06±.03g/cm ³ at 20°C
Boiling point of solvent	>100°C
Flashpoint	None
System	1-part
pH	3.0 - 5.0 at 20°C (50% in water)
Viscosity	1-10 mPas @ 20°C

Property	Coating
Appearance	Invisible
Coating Thickness	100 - 150 nm
Contact angle (static, water)	>120° (ASTM D7334-08)
Contact angle (static, oil)	>90° (ASTM D7334-08)
Weather Resistance	3,500 hours passed (ISO 11507 A)
Temperature Stability	250°C Permanent, 450°C Peak
Chemical Stability	pH1 - pH13
Wash Stability	> 30 washes (AATCC 135)
Water Repellency: Spray Test	95 (AATCC 22)

Packaging

Textile Shield is available in:

- 20 liter HDPE tote

All statements, technical information and recommendations contained in this document are based upon tests or experience that DryWired believes are reliable. However, many factors beyond DryWired's control can affect the use and performance of a DryWired product in a particular application, including the conditions under which the product is stored or used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the DryWired product to determine whether it is fit for a particular purpose and suitable for the user's method of application. No warranty or condition, expressed or implied, is given regarding the accuracy of the statements, technical information or recommendations contained in this document. Except to the extent prohibited by law, DryWired will not be liable for any losses or damages arising in any way from the DryWired product including, without limitation, any direct, indirect, special, incidental or consequential damages, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



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