

Fabric Guard

Water, oil, and stain protection of natural textiles.

Description

Fabric Guard is a water-based, liquid formulation which acts as a surface modification agent on oxidic, carboxy- and hydroxy-functional substrates such as natural fibers like cotton and leather. **Fabric Guard** forms a thin layer by chemically bonding to the substrate system while subsequent horizontal crosslinking takes place forming 2- and 3-dimensional networks. The created coating is chemically and mechanically stable and prevents water and oil from penetrating. **Fabric Guard**-modified surfaces underlie minimal change to the original natural appearance.

Recommended Use

Ideal for textiles such as cotton and leather. It protects and waterproofs furniture, carpets, upholstery, curtains, and other textile surfaces, assuring that water, oil, and dirt are chemically repelled.

Key Benefits

- Hydrophobicity
- Oleophobicity
- Dirt-protection
- Easy to clean
- Easy surface application
- Water-based
- No modification to fabric's surface appearance
- Long-lasting
- User and environmentally friendly
- Cost-effective

Technical Specifications

Form/Type:	Water suspension
Color:	Yellowish
Density (EN ISO 2811-1) :	1.0 ± 0.05 g/cm ³
pH:	5.0 ± 0.5
Application Temperature:	41°F - 95°F (5°C - 35°C)

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International Standards Testing

Contact angle measurements:	<p>Water -and oil- proofing can be quantified with contact angle measurement between liquid and substrate. The contact angle is measured between a 5 μL liquid droplet and the sample's surface (at 0 min and 5 min time after the drop had touched the surface) by using an optical tensiometer. The measurement results for treated with Fabric Guard and untreated surfaces are presented below:</p> <ul style="list-style-type: none"> Water droplet - Papyrus <ul style="list-style-type: none"> Untreated: Contact angle 0min = 28.67° Treated: Contact angle 0min = 171.10° Contact angle 5min = 165.28° Water droplet - Fabric <ul style="list-style-type: none"> Untreated: Absorbed at 0 min Treated: Contact angle 0min = 160.51° Contact angle 5min = 152.40° Oil droplet - Papyrus <ul style="list-style-type: none"> Untreated: Absorbed at 0 min Treated: Contact angle 0min = 171. 10° Contact angle 5min = 165.28° Oil droplet - Fabric <ul style="list-style-type: none"> Untreated: Absorbed at 0 min Treated: Contact angle 0min = 136.78° Contact angle 5min = 124.94°
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Surface Preparation

All surfaces should be clean, dry and free from dust, oil, grease and other foreign matters or contamination.

Application

Before application, mix the product thoroughly to homogenize. Apply by using spray, brush, or roller. Textiles such as cotton can be dipped for 0.5 to ten minutes. The application on leather can be done by polishing **Fabric Guard** on to the material. Before full-scale application, test results in a small area. No dilution is required. On very absorptive surfaces re-apply within 1 hour. Maximum protection is achieved 24 hours post-application.

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Consumption

Estimated consumption rate: 300 – 400 sq. ft. per gallon strongly dependent on the properties of the surface applied.

Storage

Store only in the original container. Store the containers sealed, in a cool and well-ventilated place. Keep away from direct sunlight. Keep far away from sources of heat, open flame and sparks and other sources of ignition. Keep containers away from any incompatible materials.

Available Packaging

- 32 oz (1L) Plastic container

- **Notes & Precautions:** Adverse weather conditions during or after the product application may affect the properties of the coating. Store closed containers, in controlled dry and enclosed space, away from sources of ignition and temperatures from 41°F to 95°F (5°C to 35°C), for up to 18 months.
- The Technical Data Sheet should be read in conjunction with the Safety Data Sheet. The current edition of this technical data sheet automatically cancels any previous one concerning the same product. For more information, please contact Armus: info@armussolutions.com
- The Technical Data Sheets and the recommendations for using Armus products are based on our scientific knowledge, laboratory studies, and long-term experience. Therefore, the information provided must be considered indicative and subject to constant review in relation to the circumstances and each practical application. Furthermore, the product's suitability should be examined in each case for each specific use.
- The end-user bears complete & exclusive responsibility for any side effects that may arise from the incorrect use or storage of the aforementioned product.

