



Non-Fluorinated, Water-Based Fabric Protectant AN-16

Formula Sheet

Water-based formulation using Kippisil® silicones and AQUACER® 492

Material	% by Weight	Use
Water	42.00	Diluent
AQUACER® 492	42.00	Modified paraffin wax emulsion
Genapol® 9106	0.50	Surfactant
Kippisil® PAS	10.00	100% active amino polysiloxane
Kippisil® DAQ702	5.0	Long chain silicone quat
BYK®-349	0.5	Even coating of the fabric
Preservative	0.5	
Total	100.00	

Processing Instructions

1. In a clean vessel, add deionized water and start mixing slowly.
2. Add AQUACER® 492, BYK®-349, Genapol® 9106, Kippisil® PAS and Kippisil® DAQ702 while mixing.
3. Add preservative and adjust pH to 5.0 to 6.0 with Acetic Acid
4. Mix until fully homogeneous

Raw Materials

- Kippisil® is a Registered Trademark of IndSpyre Solutions.
- Genapol® is a Registered Trademark of Clariant.
- BYK® is a Registered Trademark of BYK.

The information contained herein is to the best of our knowledge true and accurate, but all recommendations and suggestions are made without guarantee. Since the conditions of use are beyond our control, IndSpyre Solutions disclaims any liability incurred with the use of these data or suggestions.



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Photo of Non-Fluorinated Water-Based Fabric Protectant formulation



Non-Fluorinated Water-Based Fabric Protectant formulation is on the right, Commercial Product Repel® from Jason Markk® - water-based formulation on the left



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Procedure

Substrate: Boat canvas

- Spray Repel® on one square of canvas - let dry 24 hours at room temperature.
- Spray formula on one square of canvas - let dry 24 hours at room temperature.
- Apply 2 drops of DI water to each and observe if water is repelled.
- Apply 2 drops of red wine to each and observe effect.
- Evaluate visually and photograph.
- Let set 24 hours to determine if still repellent or not.
- Evaluate visually and photograph.

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