

School of Textile and Design



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**Use of Soil Repellent Finish
On
Cotton Fabric**



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Declaration

We hereby certify that we have had performed the following work collectively and only using the specified literature, experimental techniques and testing methods.

Names:

Muhammad Rashid Bashir

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Bilal Hanif

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Muhammad Ahmad Majeed

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Project Completion Certificate

I Certify that **Muhammad Rashid Bashir Id No. 101611-002, Bilal Hanif Id No. 101611-019, Muhammad Ahmad Majeed, Id No. 101611-049**, Session 2010 to 2014 has carried out and completed the project entitled “**Use of Soil Repellent Finish on Cotton Fabric**” under my supervision for requirement for the award of Degree of Bachelor Of Textile Engineering by University of Management and Technology.

Research supervisor

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Assistant Professor

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DEDICATED TO

Our Parents, Family

&

Respected Teachers



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Abstract:

In this project we are going to apply soil repellent finish on the basic one by one plain weave bleached cotton fabric. We selected this topic for the project just because in our daily life we wash our fabric to remove stains which decrease the life of fabric and detergents are also a cause of environmental pollution. We are going to apply the finish which also provides water and oil resistance so fabric resists water-borne and oil-borne soils. After applying finish we can easily remove soil by only cleaning the fabric by hand, water-borne stains can also be easily removed by only cleaning or dry cleaning and oil-borne soil can be removed from household laundry. The finish we are going to apply will also increase the life of fabric. We will apply finish by padding and then pass fabric through a durable press. To check breakage strength, elongation and air permeability we performed tests in a highly equipped lab.

Key Words:

Soil resistant, cleanability, PFOS-free, PFOA-free, Fluorochemicals (FC), and water-oil-soil repellency