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(57) Abstract :

The present invention relates to a water-repellent and biodegradable-polymer enhanced stiff jute-cotton blended (Juco) fabric and a process for the preparation thereof. The process for the preparation of the improved juco fabric comprises the steps of, subjecting the juco textile to treatment with a chitosan solution and drying the same; preparing a coating solution by combining HDTMS silane with ethanol and subjecting the chitosan-treated juco textile to treatment with the coating solution, followed by curing at 100 to 120 °C to obtain the superhydrophobic stiff surface. Fig.1

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