



ecosafe®

Sustainable FR Coatings

BY PWGF

“

For the first time in the history of the world, every human being is now subjected to contact with dangerous chemicals, from the moment of conception until death.”

”

Rachel Carson

An American marine biologist, writer, and conservationist whose influential book *Silent Spring* (1962) and other writings are credited with advancing the global environmental movement.

Who are PWGF?

P W Greenhalgh Finishing Limited is the leading home furnishing and textiles finisher in the UK.

Our expertise in textile finishing, coating and lamination is unique in the industry.

Our capabilities include Bleaching, Dyeing, Coating, Lamination, Powder Point Coating, Collar interlining, Fusible coating, and Garment Interlining.





EcoSafe® by PWGF, is a safe and effective halogen free fire retardant coating for fabrics. It can be used on our range of fabrics suitable for upholstery, drapery and accessories.



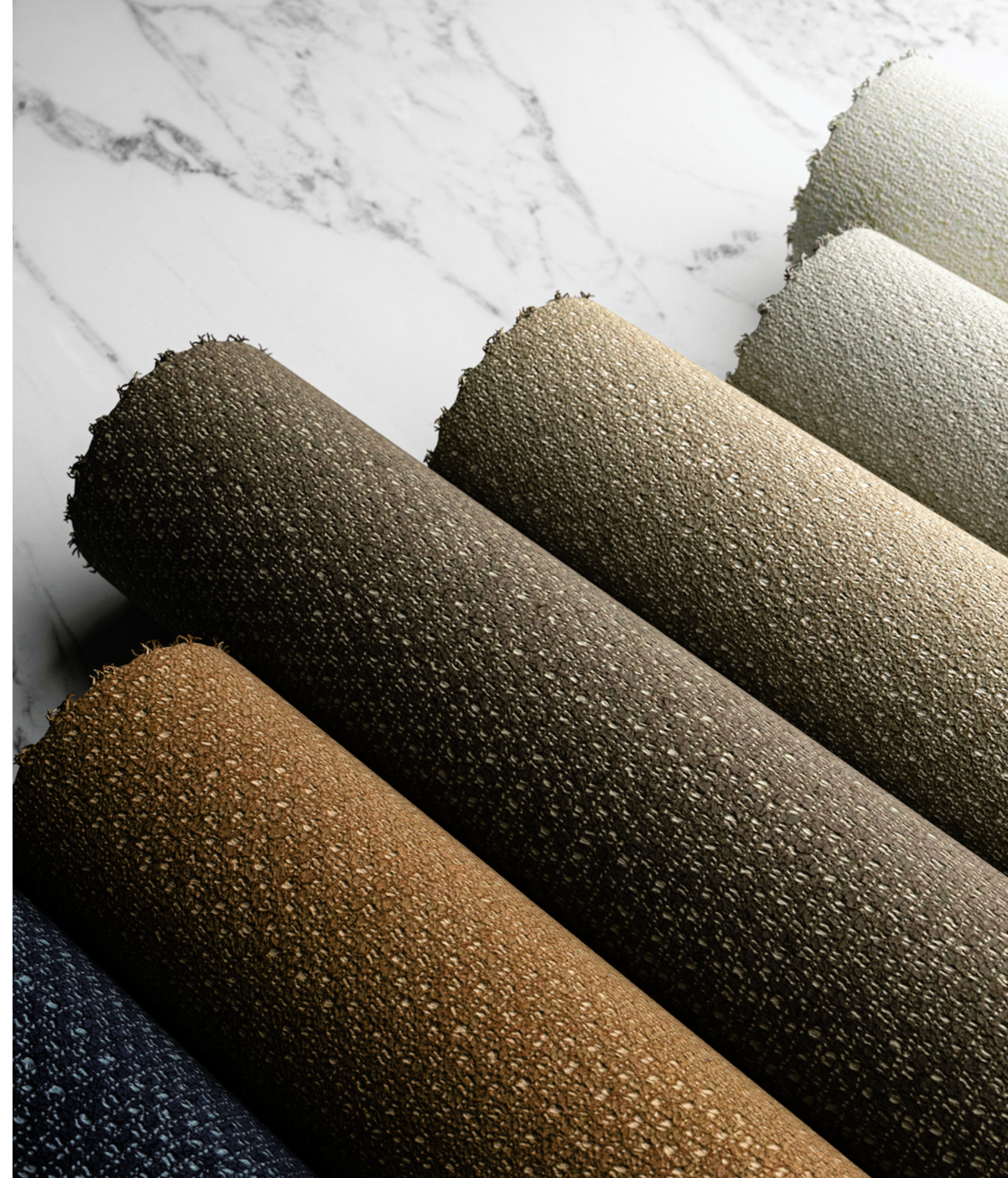
Why Halogen Free?

Whilst current standard FR is still widely accepted and used, there is an industry shift happening. There is a move towards halogen-free solutions due to supply and safety concerns.

Recent research has shown the dangers of brominated flame retardants (including halogen).

Certain halogenated compounds can degrade into dioxins and dioxin-like compounds. Also, exposure to the elements (sun, wind, rain) can break down the fabric to the point where the halogens can be carried in to surrounding ground water.

EcoSafe offers a more sustainable, environmentally friendly flame retardant coating that can be used across all types of finished fabrics.



Why Antimony Free?

While much of the focus on Greener FR systems has been on the Halogenated compounds, the majority also contain Antimony Trioxide (ATO) along with the Brominated material as a synergist. The two materials act together to give improved FR performance.

ATO carries a number of hazards to health. It is a suspected carcinogen, can irritate and may burn the eyes and skin, can cause coughing and shortness of breath, headaches, loss of sleep, damage organs, may damage the unborn child, and damage the male reproductive system.

Once bound into a coating, ATO is safe to handle, but as for Brominated FR it can be released in manufacturing or at end of life for the treated article.



Why ecosafe?



Environmentally
Friendly



Recyclable



Eco Friendly
Production



Fire
Retardant



Non-toxic
Ingredients



High
Performance



ecosafe is:

Non-Toxic

Non Chlorinated

Non Carcinogenic

Non disrupting of the reproductive system

Free From:

Halogen

Heavy metals

Bromine

Antimony

Organophosphate

Fluorocarbon

Bio-accumulative Chemicals





EcoSafe FR technology is Oeko-tex certified to Class IV (Approval Pending) and only contains chemicals from the ACP list.

EcoSafe doesn't contain any substances prohibited under California Proposition 65 and contains no substances that are on the ECHA SVHC list or the SVHC candidate list.





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