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(54) Title: METHOD

(57) **Abstract:** A method for forming a water, oil, and/or gas resistant and/or impermeable product is disclosed. The method may comprise (a) coating a product with a composition, the composition comprising: a protein, wherein the protein, is a plant-derived protein, an animal-derived protein, a fungus-derived protein, or any combination thereof; and/or shellac; and (b) heating the coated product. The coated product may be heated to temperatures in excess of the ignition temperature of the uncoated product and/or in excess of the thermal degradation temperature of the protein and/or shellac (e.g. to temperatures between 200 °C and 300 °C) without damaging the coated product. Water, oil, and/or gas resistant and/or impermeable products formed by the method are also disclosed. The products may comprise cellulose-based products such as a paper-, cardboard- or wood-based products. The products may form part of or all of a container for use in the food and beverages industry or an item of cutlery. The products may be coloured products. The products may be suitable for re-use.



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