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Details view

Knowhow offering

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| Title | Antibacterial Coatings for Glass, Metals, Plastics and Fibres |
| Knowhow is available for | Preparation of an organic-inorganic hybrid nanocomposite sol-gel anti-bacterial coating |
| Summary | |
| Advantages | 1. Excellent antibacterial property: o >98% log reduction and 14-22 mm zone of inhibition when applied as top coat and tested against Escherichia coli o 90-95% biofilm inhibition when applied on acrylonitrile butadiene styrene (ABS) contact lens cases and tested against Pseudomonas aeruginosa, Staphylococcus aureus, Acinetobacter baumannii and Enterococcus faecium bacterial strains 2. Non-toxic 3. Transparent and colored coatings possible 4. Formulation can be applied as top coats on finished products or can be synthesized as antibacterial powders which can be used as additives for existing formulations 5. Low temperature curing and single coat application 6. Low cost and fast processing times 7. Easy to scale-up process for large scale applications |

Knowhow is listed under following categories

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| Knowhow from | |
| Scientific/ engineering subject areas | Chemical sciences & engineering ; Life sciences/ biosciences & engineering |
| Investor interest categories | Materials Technology including Nanotechnology |
| Industries | Inorganic and Hybrid materials, Inorganic materials ; |