



Paints & Coatings

acib has developed an enzymatic method for the faster drying of paints, but the right enzymes can do much more: Degrading malodorous or even toxic compounds for a better indoor climate. And bio-based coatings can also provide protection from fire!

BACKGROUND

From furniture to window frames and indoor walls, whenever something is painted it should dry fast. But did you know that toxic heavy metals such as cobalt are commonly used as siccative to achieve this fast hardening of paints? acib has developed enzymes to not only remove toxicity from paints, but from their whole indoor surrounding as well.

TECHNOLOGY

acib has carefully selected and engineered enzymes to survive the conditions found in paints and to cross-link alkyd resins leading to a faster drying of the paint, without the need of toxic metals. Even better, acib can integrate enzymes in water-based decorative paints for the active detoxification of hazardous or malodorous compounds and even bacteriolytic enzymes creating a place for health and well-being. Just imagine the stench of hydrogen sulphide and butyric acid being naturally removed in public toilets or formaldehyde and aromatic compounds being eliminated from your children's room, while enzyme provide additional protection from potentially harmful bacteria.

acib has also started to develop non-toxic, bio-based compounds with flame-retardant properties to protect wood-based building materials and to meet safety requirements. Such coatings can also be integrated into bio-based hydrogels to protect trees from wildfires without harming the environment.

OFFER

Under protection of a CDA/NDA we provide you with professional strategies for the application of your choice. Any IP developed in such a project would fully belong to our investor/industrial partner.

EXPERTS

Prof. Dr. Georg Gübitz
Dr. Gibson Nyanhongo

AVAILABLE FOR

- Investments
- Joint Research Projects
- Contract Research

DEVELOPMENT STATUS

Technology Readiness Level 2-4
(Technology validated in lab)

IPR

WO2012085016
More can be generated for our
industrial partners / investors

KEYWORDS

- Green Chemistry
- Bio-Paints
- Bio-Based Coatings
- Environmentally-Friendly
- Enzymatic Degradation
- Malodorous Compounds
- Toxic Compounds
- Flame-Retardants
- Hydrogels

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