

Biocide Coatings



INNOVENT

Technology Development

Research Department:
Primer and Chemical
Surface Treatment

Microorganisms such as fungi and bacteria are omnipresent members of our natural environment. In most cases humans can easily manage this circumstance and even take advantage of the action of microorganisms in many ways.

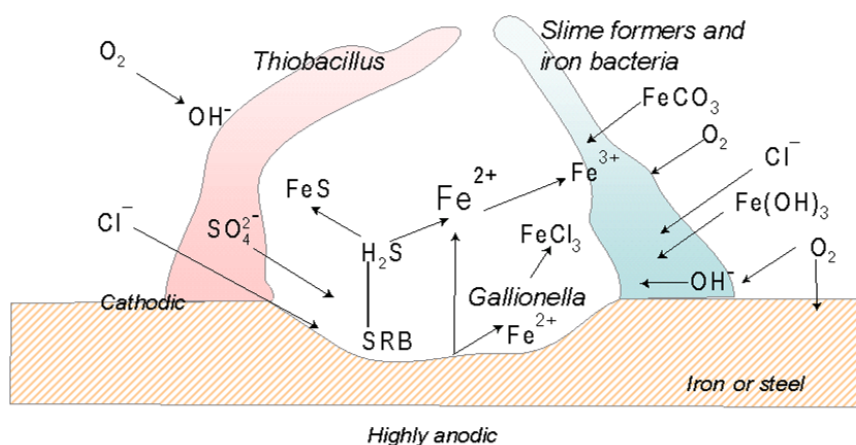
In some cases the (uncontrolled) activities of microorganisms are highly undesirable, e. g.:

- pathogenic microbes e. g. in hospitals
- production and handling of certain pharmaceutical and medical devices
- production and storage of perishable food
- Influence / acceleration of corrosion processes (so-called "biocorrosion", e. g. due to sulfate-reducing bacteria (SRB))
- Rotting / decomposition of wood, especially at high moisture levels (e. g. earth burial tests according to EN 252)

In such and similar cases, it may be useful to equip materials with a function against the colonization of certain microorganisms.



Wood protection test according to DIN EN 113



Corrosion process involving several types of bacteria and indicated biofilm (schematic), according to S.C. Dexter, *Metals Handbook, Vol. 13, Corrosion, 9th ed., ASM International, p. 114, 1987*

Our range of services:

- Feasibility studies for the biocidal equipment of materials according to a given requirement profile
- Agar diffusion tests for characterizing the growth inhibitory potential of active substances and formulations based thereon
- Studies on the efficacy of coating materials against biocorrosion, caused by sulfate-reducing bacteria
- Biodegradability studies of wood and plastics

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