

Canadian Open Environmental Science & Technology Journal

Vol. 1, No. 1, April 2015

Table of Contents

Articles

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[Evaluation of the preventive characteristic of commercial anti-foam products on the proliferation of micro-organisms on the surface of fired clay roofing tiles](#)

Authors: M. Fassier, L. Guironnet, C. Faugeron, V. Gloaguen, C. Ducroquetz, O. Dupont

Pages: 1 - 23

---

[Eco-friendly, Modification of Severe Tropical Cyclone: Towards Social Welfare Technology](#)

Author: Deepak Bhattacharya

Pages: 1 - 22

---

Research article

# Evaluation of the preventive characteristic of commercial anti-foam products on the proliferation of micro-organisms on the surface of fired clay roofing tiles

M. Fassier<sup>a</sup>, L. Guironnet<sup>a</sup>, C. Faugeron<sup>b</sup>, V. Gloaguen<sup>b</sup>, C. Ducroquetz<sup>a</sup>, O. Dupont<sup>a</sup>

<sup>a</sup> Centre Technique de Matériaux Naturels de Construction, 17 rue Letellier, 75726 Paris Cedex 15, France

<sup>b</sup> Laboratoire de Chimie des Substances Naturelles, 123 avenue Albert Thomas, 87060 Limoges Cedex, France

Corresponding author. Tel : +33 5 19 76 01 41, Fax : +33 5 19 76 01 44

E-mail address: [m.fassier@ctmnc.fr](mailto:m.fassier@ctmnc.fr) (M. Fassier)



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## Abstract

The Centre Technique de Matériaux Naturels de Construction (CTMNC) is regularly asked about the roofing tiles treatment and maintaining techniques and about properties and efficiency of the different commercial anti-foam products. So, in order to best respond to them, the CTMNC suggested to realize a study to verify what the manufacturers claim about their products and their efficacy. The aim of this study is to present the main results about the efficacy of anti-foam products against micro-organisms.

Physico-chemical characteristics such as pH, water miscibility, density and the molar concentration of the active molecule of 27 products have been studied and compared to the manufacturer data. Moreover, with the use of a water streaming test, it has been possible to compare the efficacy of the different studied products on the proliferation speed of microorganisms on the roofing tiles surfaces.

**Key words:** Roofing tiles, greening, water-streaming test, anti-foam product