

Behaviour of Roofing Materials Facing to Micro-Organisms

Marielle Fassier¹, Céline Faugeron², Vincent Gloaguen², Céline Ducroquetz¹, Olivier Dupont¹

¹Centre Technique de Matériaux Naturels de Construction, Paris, France

²Laboratoire de Chimie des Substances Naturelles, Limoges, France

Email: m.fassier@ctmnc.fr

Received September 18, 2012; revised October 20, 2012; accepted October 29, 2012

ABSTRACT

An accelerated water-streaming test was used to evaluate several roofing materials regarding their behavior to colonization by algae, by closely reproducing the phenomenon of natural biological soiling. A set of roofing materials with defined physical and chemical characteristics was thus investigated against the colonization by algae. Porosity, roughness and chemical composition showed to be factors of influence in the establishment of those micro-organisms.

Keywords: Building Materials; Fired Clay Products; Water-Streaming Test; Micro-Organisms; Colonization

Téléchargez gratuitement l'article sur le site : www.scirp.org/journal/gsc