



UNIVERSITÀ
DI SIENA
1240



Natural treatment of natural stone goods

“BioConCultura” Call for Bids by the Tuscany Region

WITH BIODEA WOOD DISTILLATE FOR THE REMOVAL OF LICHENS AND BIOFILM (CYANOBACTERIA, ALGAE AND FUNGI)

BioDea wood distillate has important properties useful for removing and preventing the formation of lichens and biofilms in natural stone goods (cyanobacteria, algae, fungi) which represent an element of aesthetic degradation and a threat to their conservation. The procedure of art conservators involves biocidal treatments followed by automated removal and a potential application of specific products that aimed at limiting recolonization events.

BioDea wood distillate is high in acetic acid, polyphenols and tannins and has important green biocidal properties. Obtained from the pyrogasification of virgin wood biomass, it is an alternative to the use of traditional biocides, that not only are toxic for workers and environment, but are also responsible for the development of resistant strains. The effectiveness and persistence of the BioDea Wood Distillate action will also be demonstrated with its application to the natural stone goods located in the Park of Pratolino in Florence.

**BIOCONCULTURA Project - NATURAL TREATMENT OF NATURAL STONE GOODS
WITH BIODEA WOOD DISTILLATE FOR THE REMOVAL OF LICHEN AND BIOFILM
(CYANOBACTERIA, ALGAE AND FUNGI)**

Funded by TUSCANY REGION - POR FSE 2014-2020

Project partners:

Department of Life Sciences, University of Siena

Department of Biology, University of Florence

Department of Life Sciences and Systems Biology, University of Turin

Department of Pharmacy, University of Genoa

Medici Park of Pratolino, Metropolitan City of Florence

Esperia srl & BioDea- RM Group Energy Solutions

BIODEA – RM GROUP ENERGY SOLUTIONS

Via delle Case Rosse 16, Civitella in Val di Chiana 52041 Arezzo (AR) info@rmimpiantisrl.it
www.rmimpiantisrl.it www.cryosgasunit.com www.biodea.bio