Stone conservation for the refurbishment of buildings

Fact Sheet

Project Information

STONECORE
Grant agreement ID: 213651

Funded under FP7-NMP

Project website

Status
Closed project

Overall budget
€ 3 369 000

EU contribution
€ 2 453 300

Start date
1 September 2008

End date
31 August 2011

Coordinated by
IBZ-SALZCHEMIE GMBH & CO KG

Germany

This project is featured in...

RESEARCH*EU MAGAZINE
Archaeology, history and heritage: a civilisation discovered in Libya’s desert

NO. 9, FEBRUARY 2012

Objective

STONECORE is a project dealing with the development and application of nano
materials for consolidation and conservation of natural and artificial stone. Six SMEs, four universities, one public research organisation and one public body from seven countries have jointed together in order to find a new approach for refurbishment. The idea is to develop and test nano materials compatible to the components originally used during construction together with non destructive stone assessment methods. Colloidal sols of calcium hydroxide, calcium / barium carbonate, calcium sulphate or related compounds will be in the centre of interest. These materials will be used also as new, biozide free agents for mildew removal. The project will lead from laboratory investigations and small scale applications on trial areas to the use of the developed materials on selected real objects. It is a project that aims on knowledge based refurbishment of buildings as well as monuments of cultural heritage and that combines natural sciences and the art of conservation. Thus, main subjects of STONECORE are: • The development of nano materials compatible to natural and artificial stone for refurbishment of buildings, monuments, fresco, plaster and mortar, • The development and test of suitable technologies for their application and • The development and test of non destructive assessment methods (such as georadar) in combination with traditional assessment methods (SEM, XRD, drilling resistance and other). The project will have duration of three years. The results will be presented to the public and interested companies in three workshops, in which interested parties are invited to test the developed materials and techniques on own objects. The project contributes to the EC objectives by the development of materials and technologies allowing a reduction of the material and energy consumption during refurbishment, creating new business opportunities for SMEs and protecting the cultural heritage.

Field of science

/natural sciences/chemical sciences/inorganic chemistry/inorganic compounds
/social sciences/economics and business
/natural sciences

Programme(s)

Topic(s)

Call for proposal

FP7-NMP-2007-SME-1

Funding Scheme
### Coordinator

**IBZ-SALZCHEMIE GMBH & CO KG**

**Address**

"Gewerbegebiet "Schwarze Kiefern""

09633 Halsbruecke

Germany

**Website**

Contact the organisation

**Activity type**

Private for-profit entities (excluding Higher or Secondary Education Establishments)

**EU contribution**

€ 442 766

**Administrative Contact**

Gerald Ziegenbalg (Prof.)

### Participants (11)

**ETAIRIA GEOGOLOGIKON-GEOFYSIKON EREVNON KL. DIMITRIADIS KAI SIA EE**

**Address**

Lykaiou 35

11476 Athina

Greece

**EU contribution**

€ 180 700

**Activity type**

Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Administrative Contact**

Klisthenis Dimitriadis (Mr.)

**STROTTEMM UND PARTNER RESTAURATORENPARTNERSCHAFT**

**Address**

Hauptstrasse 140

53721 Siegburg

Germany

**EU contribution**

€ 232 300

**Activity type**

Private for-profit entities (excluding Higher or Secondary Education Establishments)
<table>
<thead>
<tr>
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<th>Country</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity Type</th>
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<tr>
<td>RESTAURO SP ZOO</td>
<td>Poland</td>
<td>€ 195 500</td>
<td>Ul. Lazienna 4, 87 100 Torun</td>
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<tr>
<td>GEOTRON ELEKTRONIK-KROMPHOLZ ROLF</td>
<td>Germany</td>
<td>€ 166 300</td>
<td>Leite 2, 01796 Pirna</td>
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<tr>
<td>INDUSTRIAL MICROBIOLOGICAL SERVICES LIMITED</td>
<td>United Kingdom</td>
<td>€ 156 692</td>
<td>Oxford Road 118B</td>
<td>Private for-profit entities</td>
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UNIVERSITY OF FINE ARTS DRESDEN
Germany
EU contribution
€ 205 500
Address
St Petersburger Strasse 15
01069 Dresden
Activity type
Higher or Secondary Education Establishments

HELLENIC MINISTRY OF CULTURE AND TOURISM
Greece
EU contribution
€ 128 826
Address
Bouboulinas 20-22
10682 Athens
Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

USTAV TEORETICKE A APLIKOVANE MECHANIKY AVCR
Czechia
EU contribution
€ 199 096
Address
Activity type
Prasecka 75
Research Organisations
TECHNISCHE UNIVERSITEIT DELFT
Netherlands
EU contribution
€ 218 500
Address
Stevinweg 1
2628 CN Delft
Activity type
Higher or Secondary
Education Establishments

Administrative Contact
Evert Slob (Mr.)

UNIVERZITA PARDUBICE
Czechia
EU contribution
€ 160 100
Address
Studentska 95
532 10 Pardubice
Activity type
Higher or Secondary
Education Establishments

Administrative Contact
Jitka Genserova (Ms.)

UNIVERSITAT FUR ANGEWANDTE KUNST WIEN
Austria
EU contribution
€ 167 020
Address
Oskar Kokoschka Platz 2
1010 Wien
Activity type
Higher or Secondary
Education Establishments