



SANITSER LIFE12 ENV/IT/001095

Deliverable Action D.1

Communication and dissemination actions

Proceedings of the midterm presentation seminars in the Civita
Castellana district

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Date: 10/12/2015 - 11/12/2015





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1. Presentation for high school students

1.1. Programme of the day



PROGETTO LIFE + SANITSER:

PRESENTAZIONE DEI PRIMI RISULTATI OTTENUTI

L'obiettivo del progetto è quello di rivedere il processo di produzione dei sanitari introducendo nelle miscele di ceramica una quantità rilevante di scarti di vetro derivanti dallo smaltimento dei rifiuti urbani

RISULTATI PREVISTI:
risparmio di risorse primarie
40-50 %
risparmio di energia
16-18 %

PROGRAMMA

- ore 9:30 inizio della presentazione con presentazione del Dr. Cavalieri
- ore 9:40 relazione del preside Franco Chericoni e/o Prof. Bruno Cavalieri
- ore 10:20 domande e quesiti
- ore 10:30 relazione Dr. Daniela Tabacchi (Minerali Industriali srl) sulle materie prime ceramiche ed in particolare sul processo di recupero del vetro
- ore 11:10 domande e quesiti
- ore 11:20 relazione sig. Gagliardi Ermanno (GEMICA srl) sugli smalti ceramici
- ore 12:00 domande e quesiti
- ore 12:10 relazione dell'Ing. Fortuna Domenico sugli impasti ceramici
- ore 12:50 domande e quesiti
- Fine della giornata di lavori

Start date: 01/07/2013 - End date: 31/03/2017

www.sanitser.eu



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1.2 Report and pictures

A presentation of the LIFE SANITSER project was held the 10.12.2015, at the ITIS school of Civita Castellana. It was attended by the third classes of the Art School and ITIS and by a fourth class of the Art School with Chemical address, for a total of about one hundred children, accompanied by their teachers. After an introduction of the Dean Prof. Chericoni, the representatives of the companies operating in the ceramic and raw materials sectors participating to the SANITSER project took the floor. First, Daniela Tabacchi, from Minerali Industriali, explained what are the raw materials used for the production of ceramic bodies and glazes, in particular focusing on the glass recovery process, material included in the formulations of bodies and glazes studied during the project. Elisabetta Martini, SE.TE.C. srl, has exposed the production process of sanitaryware and in particular the one used for slip containing recycled glass. Ermanno Gagliardi, G.E.M.I.C.A. srl, has instead illustrated the process of production of a ceramic glaze for sanitaryware and tableware, showing the pilot plant designed for the production of glass-containing glazes. Various sessions for Q&A were foreseen. The audience showed great interest and took arrangements with teachers to organize visits to the pilot plants of the companies, to see the results obtained in the Sanitser project.









SANITSER

2. Presentation for local ceramic workers

2.1 Programme of the day



PROGETTO LIFE + SANITSER:

PRESENTAZIONE DEI PRIMI RISULTATI OTTENUTI

L'obiettivo del progetto è quello di rivedere il processo di produzione dei sanitari introducendo nelle miscele di ceramica una quantità rilevante di scarti di vetro derivanti dallo smaltimento dei rifiuti urbani

RISULTATI PREVISTI:

risparmio di risorse primarie	risparmio di energia
40-50 %	16-18 %

PROGRAMMA

- ore 9:30** inizio dei lavori e registrazione dei partecipanti
- ore 9:45** relazione della MINERALI INDUSTRIALI (Daniela Tabacchi)
- ore 10:15** domande e quesiti
- ore 10:20** relazione della SETEC srl (Ing. Mattia D'Agostini).
- ore 10:50** domande e quesiti
- coffe break*
- ore 11:10** ripresa dei lavori
- ore 11:15** relazione GEMICA SRL (Sig. Ermanno Gagliardi)
- ore 11:45** domande e quesiti
- ore 11:50** relazione STUDIO Van Leijen (Dr. Gertrud van Leijen)
- ore 12:20** domande e quesiti
- ore 12:30-13:00** pranzo a buffet
- Fine della giornata di lavori*

DOVE



Il convegno si terrà presso il **Palace Hotel Relais Falisco**
Via Don Minzoni, 19 Civita Castellana (VT).

L'albergo si trova a 60 km da Roma e a 37 da Viterbo

www.relaisfalisco.it



Start date: 01/07/2013 - End date: 31/03/2017

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2.2 Report and pictures

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The 11/12/2015 SETEC srl organized a seminar for the ceramic workers of the district, with the aim to present the progress and preliminary achievements of the SANITSER project. The meeting took place at RELAIS FALISCO, an hotel in the center of the city of Civita Castellana, and all the partners were delighted to present to professionals their results.

Domenico Fortuna introduced the conference highlighting the project's objectives and the financial support it obtained from the European Union's LIFE programme. He explained that the project is halfway and points out the subjects of the various presentations. Referring to the last presentation of Mrs. Van Leijen he expressed the wish that in the district some other initiatives could obtain some financial support to boost its competitiveness.



Daniela Tabacchi initiated her presentation with a short outline of the LIFE projects so far performed by Minerali Industriali and its daughter Sasil. She focused the MEIGLASS project, that is strictly connected to Sanitser as it defined the process for re-using the glass rejects, not suitable to be normally recycled, in the production of secondary raw materials for the industries of glass, ceramics and bricks production. Sanitser can be understood as a follow-up of this project where it tries to improve the impact of sanitaryware production with a higher amount of recycled glass (40-50%) permitting significant energy reduction (16-18%) due to the possibility to renew the thermal cycles. At the moment all the pilot plants have been constructed and the most suitable formulations for slip and glazes have been defined, as well as the most suitable firing cycle. More than 40% of recycled materials, amongst which glass, ceramics and ornamental stone waste from Verbania caves.



Ms Tabacchi also explained the characteristics of the various waste materials used in the new slips and enamels. The ornamental stone waste is constituted by a feldspato sodico-potassico. She pointed out the fundamental contributions of prof. Pavese of Milan University who unfortunately could not be present. She explained the preliminary studies that were carried out prior to the project highlighting the challenges that had to be tackled, amongst which the rheological behaviour, the fire curve and the adaptation required to enamels to be compatible with the new fire curve.



Mattia D'Agostini, commercial responsabile of Setec. He explained the project objectives in terms of energy savings, offering a confrontation with actual consumption achieved with respectively tunnel and shuttle kilns, in terms of Nm^3 and €/day. He focused the advantages of the companies, in terms of quality of performance and reduction of costs, fundamental issues to guarantee the future economic sustainability of the innovation. He showed the fired piece obtained with the body SANITSER 13 and with the glaze provided by GEMICA, in SETEC pilot plant. He explained the process to obtain the fired piece and reassures the professionals that the body and the glaze, obtained in the pilot plant, were obtained without changing the industrial processes in use today. The firing curve and the maximum firing temperature are the only change.



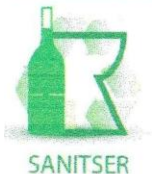
Gagliardi Ermanno, GEMICA, showed the colorimetric results of a range of different glazes prepared to this aim. Difficulty was to obtain the same whiteness, that finally was improved with Caolino Brasile, particularly white. 11,31 % of glass rejects were used. This is not the same as the one used by Setec, but a specific preparation for enamels. After the data on colours, he showed a serie of test results on resistance and other technical features, all appeared excellent. He referred the next steps of the project as provide coloured enamels, and an antibacterial glaze, with the addition of a component produced by SETEC.





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2.3 Attendance list



Presentation for high school students

PROGETTO SANITSER

Convegno 10 Dicembre 2015

Civita Castellana, 10 Dicembre 2015

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Monos Occhelli
Lina Andrea
Andrea Fiammi
Stefano
Orselli Antonio
Diego Di Nardo
Naemi Pompili
Gabriele Monesi
Gera Barboi

Antonio
Giovanna
Sai Medica
Emanuela Sora
Vincenzo
Antonio Viora - Gioia
Marta Mielele

ITIS



MINERALI INDUSTRIALI Srl

With the contribution of the





Presentation for high school students

PROGETTO SANITSER

Convegno 10 Dicembre 2015

Civita Castellana, 10 Dicembre 2015

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Andreea Dine
Hosam LIA
Sora Riccardo
Usurelu Gabriela (DUMBO)
Brecht Bogdan Marian
Daniele Mirante (CARO)
Marco Palati
Maurizio Federico
Valeriani Luca
Gusardo Gabriele
Marco Zora
Zabini Igor
Gabriele Abballe
Punzoli Daria

Francesco Pilleggi
Marco Della Corte
Vito Leonardi
Gefammi Christon
Alessio Muratori
Daniel Stefani
Vardorzi Simone
Gianluca Solerini
Paolo Mattia
HUANG MENSYI

ITIS



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Presentation for high school students

PROGETTO SANITSER

Convegno 10 Dicembre 2015

Civita Castellana, 10 Dicembre 2015

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III[°] A

Buyl Filip
Gabriela Hobu
Sofia Raut
Prestelli Ylenia
Lopez Angelica
Vionessa Spizzo
Elm. Nelli
Milo Sordini Rossi
Anna Coppola
Flaminio Marchiselli

III[°] C

Alina Placidi
Erica Pili
Vanessa Formaleo
Elia Alessandra
Beatrice Vitoli
Lara Meregge
Leonardo Amici
Ginepro Moxus

Valentina Fersini
Ariana Belfi
Giordana Gioia
Daria Lopez

LICEO ARTISTICO



MINERALI INDUSTRIALI Srl

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Presentation for high school students

PROGETTO SANITSER

Convegno 10 Dicembre 2015

Civita Castellana, 10 Dicembre 2015

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^{III⁹³}
Eliotora Bravichio
Martina Gibboni
Hessam Sharna
Manoni Letizia
Alice Lucarelli
Thomas Short
Alenia Nunzi
Ana Feliziani
Federico Giunth
Anna Maria

Ambria Pisedda
Benedico Lupo
Tommaso Giannelli
Giorgia Javeresi
Giorgiana Proce
Maurizio Manuel
Gloria Baiocchi

LICEO ARTISTICO



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SANITSER



SANITSER

PROGETTO SANITSER

Convegno 11 Dicembre 2015

Civita Castellana, 11 Dicembre 2015

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Nome	Cognome	Azienda	Firma
FERDINANDO	PASTORELLI	MIN. CERAMICHE S.R.L.	<i>[Signature]</i>
GIORDANO	CALISTI	SETEC	<i>[Signature]</i>
ALESSANDRO	CERQUAGLIA	MIN. INDUSTRIALI	<i>[Signature]</i>
ANNA	GADZIEWSKA	SIMAS	<i>[Signature]</i>
ERCOLE	CIALINI	MATRIA	<i>[Signature]</i>
PIERO	SPRACCIÀ	MATRIA	<i>[Signature]</i>
TIZIANO	MESTRNER	MIN. INDUSTRIALI	<i>[Signature]</i>
DOMENICO	FORCUNA	SETEC	<i>[Signature]</i>
MATTIA	D'AGOSTINI	SETEC	<i>[Signature]</i>
ELISABETTA	MARTINI	SETEC	<i>[Signature]</i>
DANIELA	TABACCHI	MIN. INDUSTRIALI	<i>[Signature]</i>
CARLO	CIVATI	MIN. INDUSTRIALI	<i>[Signature]</i>
DONATELLA	TROIANI		<i>[Signature]</i>
MARCO	VERONESE	CENTRO CERAMICA	<i>[Signature]</i>
ANDREA	D'ANNIBALE	CENTRO CERAMICA	<i>[Signature]</i>
MICHEL	LOOSER	POTRI-GINORI	<i>[Signature]</i>
RAFFAELA	CALCA	CAPOMANICA	<i>[Signature]</i>
Gertund	van Legeu	cons. M.I	<i>[Signature]</i>
GIOVANNI	SANTINI	ITALCHAROTTE	<i>[Signature]</i>
ERMANNO	CACCIARI	CERAMICA	<i>[Signature]</i>



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