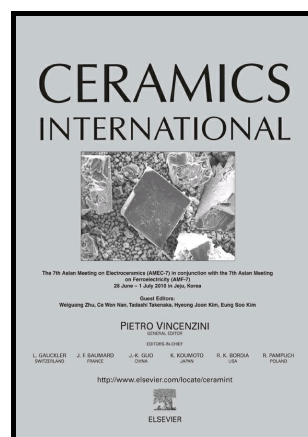


Author's Accepted Manuscript

Different shades of red: the complexity of mineralogical and physico-chemical factors influencing the colour of ceramics

Alberto De Bonis, Giuseppe Cultrone, Celestino Grifa, Alessio Langella, Antonio P. Leone, Mariano Mercurio, Vincenzo Morra



www.elsevier.com/locate/ceri

PII: S0272-8842(17)30496-0
DOI: <http://dx.doi.org/10.1016/j.ceramint.2017.03.127>
Reference: CER114896

To appear in: *Ceramics International*

Received date: 21 February 2017
Revised date: 19 March 2017
Accepted date: 20 March 2017

Cite this article as: Alberto De Bonis, Giuseppe Cultrone, Celestino Grifa, Alessio Langella, Antonio P. Leone, Mariano Mercurio and Vincenzo Morra, Different shades of red: the complexity of mineralogical and physico-chemical factors influencing the colour of ceramics, *Ceramics International*, <http://dx.doi.org/10.1016/j.ceramint.2017.03.127>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and a review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain

Different shades of red: the complexity of mineralogical and physico-chemical factors
influencing the colour of ceramics

Alberto De Bonis^{a,b*}, Giuseppe Cultrone^c, Celestino Grifa^d, Alessio Langella^d, Antonio
P. Leone^c, Mariano Mercurio^d, Vincenzo Morra^a

^aDipartimento di Scienze della Terra, dell'Ambiente e delle Risorse (DiSTAR), Università Federico II,
Via Mezzocannone 8, 80134 Napoli, Italy

^bDipartimento di Strutture per l'Ingegneria e l'Architettura (DIST), Università Federico II, Via Claudio
21, 80125 Napoli, Italy

^cDepartamento de Mineralogía y Petrología, Universidad de Granada, Avda. Fuentenueva s/n., 18002
Granada, Spain

^dDipartimento di Scienze e Tecnologie, Università del Sannio, Via dei Mulini 59/A, 82100, Benevento,
Italy

^eConsiglio Nazionale delle Ricerche – Istituto per i Sistemi Agricoli e Forestali del Mediterraneo (CNR –
ISAFoM), Via Patacca 85, 80056 Ercolano (NA), Italy

* Corresponding author. *E-mail address*: alberto.debonis@unina.it (A. De Bonis).

Abstract

Different techniques (X-ray diffraction, field emission scanning electron microscope, colorimetry, visible-near infrared reflectance spectroscopy) were carried out to investigate the cause of colour changes of traditional ceramic materials. Two clayey materials of different composition, collected in the Bay of Naples, were fired in

Download English Version:

<https://daneshyari.com/en/article/5437722>

Download Persian Version:

<https://daneshyari.com/article/5437722>

[Daneshyari.com](https://daneshyari.com)