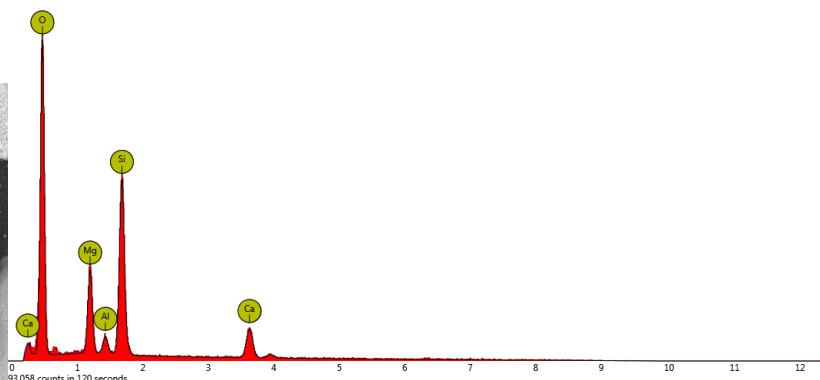
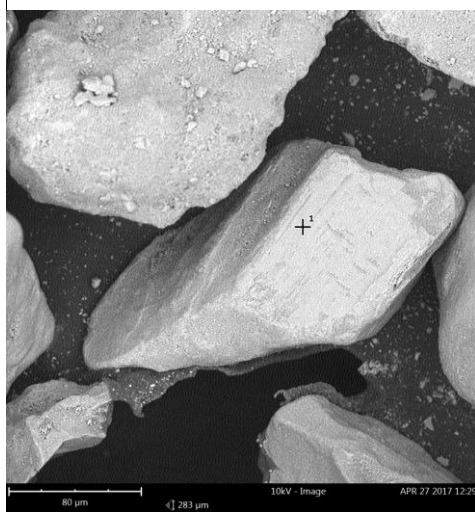


Customer	FAHMY FURNITURE
Sample ID	DUNE SAND COD.002 – comp566
Test	AGGREGATES CHARACTERIZATION
Sample (g)	300
Lab address	PF Lab Services – Simbario (VV) – ITALY

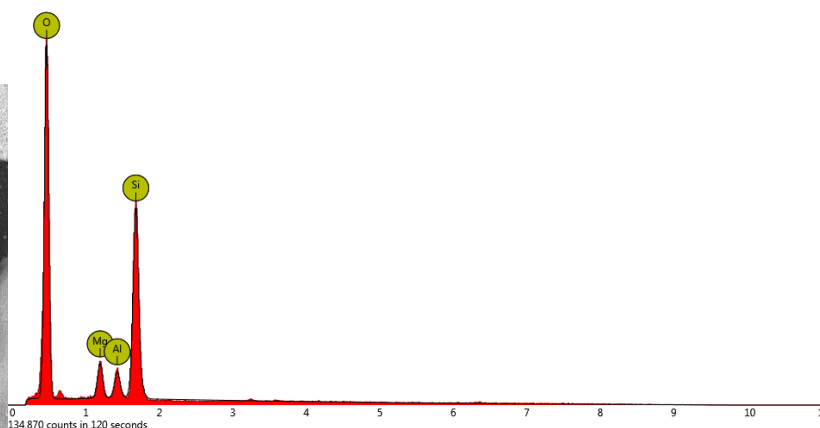
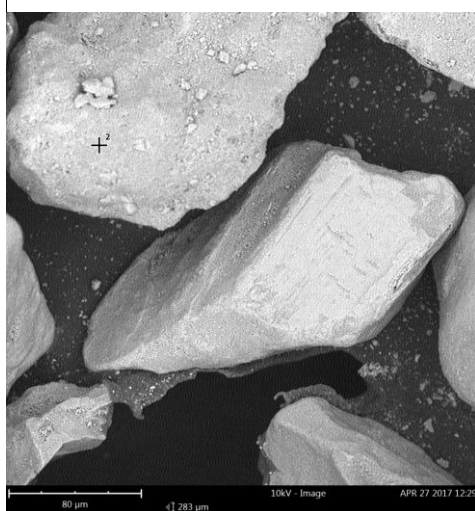
Chemical Analysis: A scanning electron microscopy (SEM) is used for the chemical analysis

1. spot



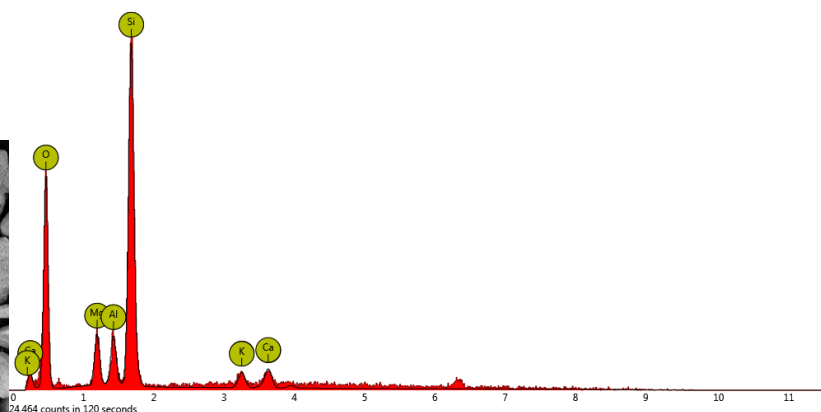
Element Symbol	Element Name	Concentration	Error
O	Oxygen	62.9	0.7
Si	Silicon	16.5	0.9
Mg	Magnesium	10.6	1.3
Ca	Calcium	8.2	1.9
Al	Aluminium	1.8	3.5

2. spot



Element Symbol	Element Name	Concentration	Error
O	Oxygen	69.2	0.5
Si	Silicon	22.0	0.7
Mg	Magnesium	5.5	1.7
Al	Aluminium	3.3	2.1

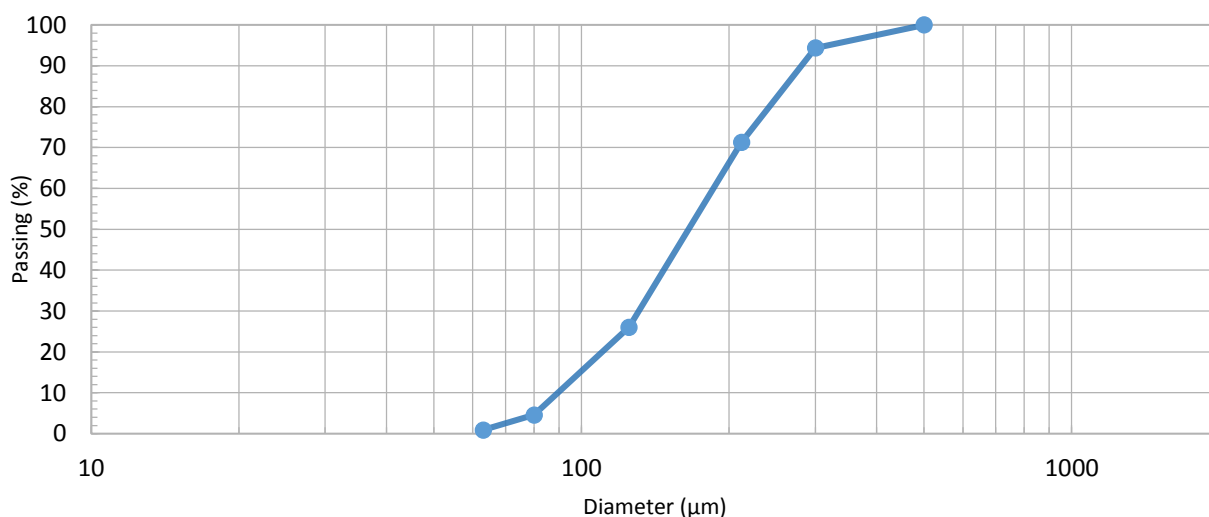
5. spot



Element Symbol	Element Name	Concentration	Error
Si	Silicon	30.8	1.3
O	Oxygen	49.8	1.8
Mg	Magnesium	5.9	3.6
Al	Aluminium	4.7	3.6
Ca	Calcium	5.1	5.1
K	Potassium	3.6	6.0

Particles size distribution

Sieves mesh mall S Steel I.S.O. 3310 (UNI EN 933-2) and electric sieve shaker with timer (UNI EN 932-5 ISO 3310-1) were used to lead the analysis.



Particles size analysis

Diameter Sieve	Passing %
[μm]	-
500	100,00
300	94,35
212	71,26

125	26,02
80	4,58
63	0,90

NOTE

Particles size analysis shows that the sand has a particles distribution between 300 μm and 100 μm . The sample of sand does not have filler (powder with particles size below 80 μm).

The DUNE SAND COD.002 can be used as well as in ISOLCOLL products, it is not necessary to sieve the sand. It can be also used in NANOSTUCCO, ISOLFUGA and ISOLVASCHE products. In this type of products could be necessary to add filler RIMACAL 6090.

The colour of the sand is dark, so it is not adequate to produce coloured mortars.

RESULTS OF THE TEST

Dune Sand cod.002 was tested in the ISOLCOLL products

FORMULATION- ISOLCOLL A10 SUPER	
CHEMICAL KIT	2.0%
GREY CEMENT	25.5%
DUNE SAND	72.5%



The results of the test show that the sand can be used in the ISOLCOLL Products.

It has a very good workability and an extended wetting capability until 30 minute. The test confirms the property of the tile adhesive.

DATE
28/04/2017

PERSONAL FACTORY REFERENT
Ing. Maria Grazia Spagnolo