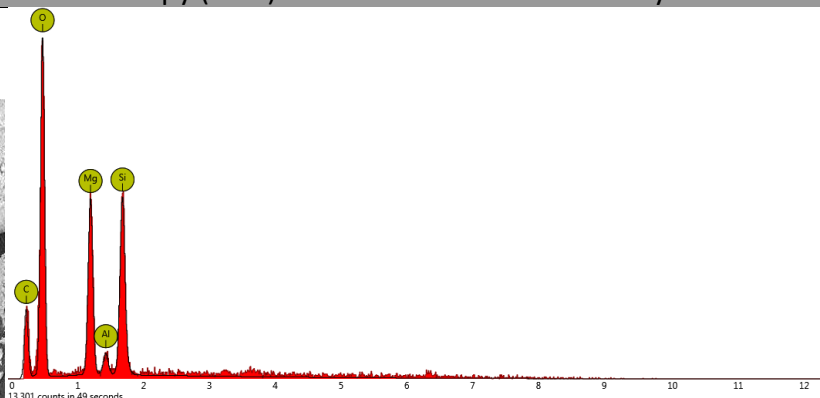


Customer	FAHMY FURNITURE
Sample ID	PLASTER SAND COD.001 – comp567
Test	AGGREGATES CHARACTERIZATION
Sample (g)	300
Lab address	PF Lab Services – Simbario (VV) – ITALY

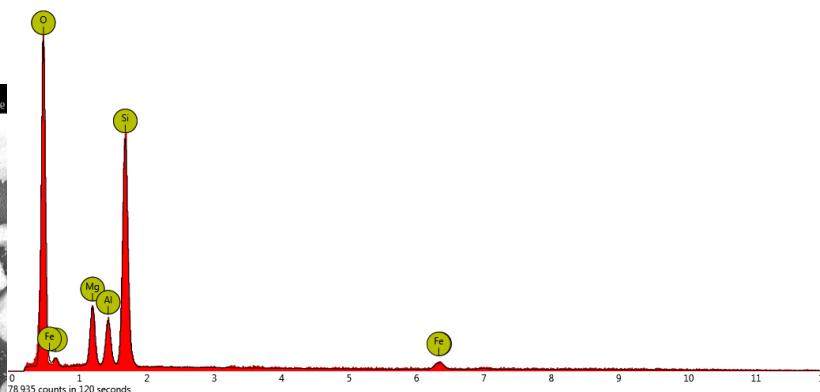
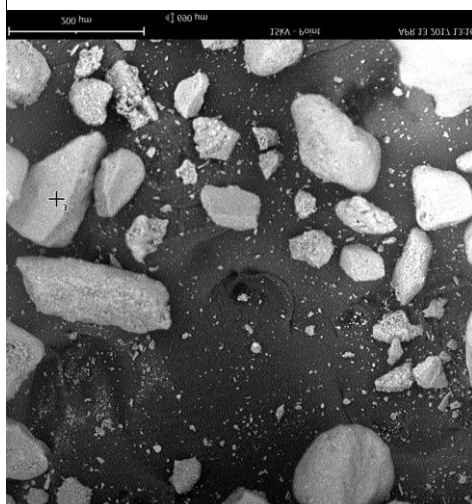
Chemical Analysis: A scanning electron microscopy (SEM) is used for the chemical analysis

## 1. spot



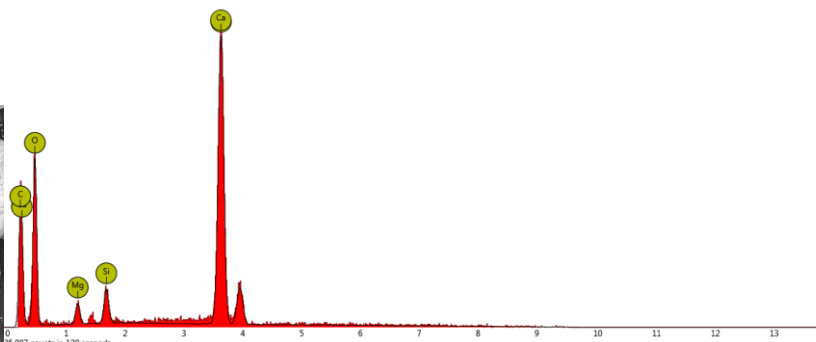
Element Symbol	Element Name	Concentration	Error
O	Oxygen	57.0	1.9
Si	Silicon	16.9	2.4
Mg	Magnesium	20.4	2.5
C	Carbon	3.4	4.5
Al	Aluminium	2.2	8.1

## 3. spot



Element Symbol	Element Name	Concentration	Error
O	Oxygen	65.3	0.8
Si	Silicon	18.5	0.9
Mg	Magnesium	8.1	1.8
Al	Aluminium	4.7	2.1
Fe	Iron	3.4	4.4

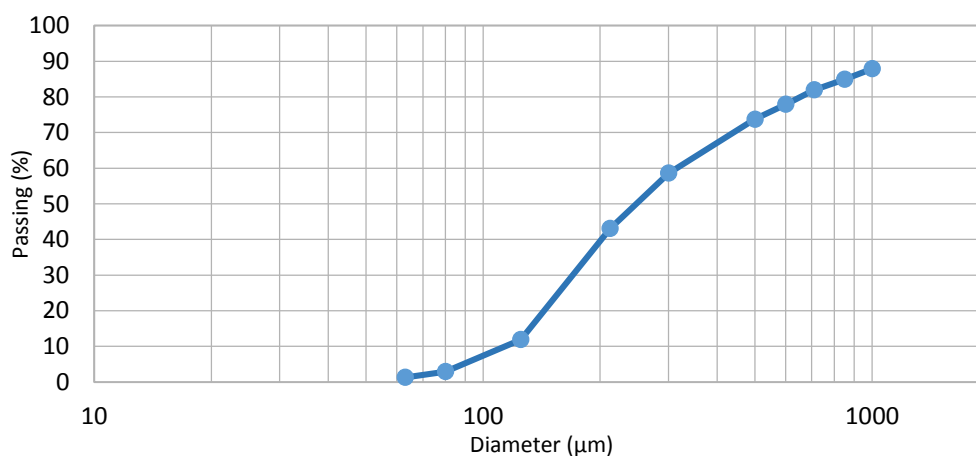
## 2. spot



Element Symbol	Element Name	Concentration	Error
Ca	Calcium	48.6	1.2
O	Oxygen	45.8	2.0
C	Carbon	1.9	2.4
Si	Silicon	1.9	4.2
Mg	Magnesium	1.8	5.6

### 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]	-
3000	98,00
1000	87,88
850	84,92
710	81,95
600	77,88
500	73,71

300	58,59
212	43,07
100	11,90
80	2,90
63	1,29

#### NOTE

Particles size analysis shows that the sand has a particles distribution between 3000  $\mu\text{m}$  and 100  $\mu\text{m}$ . The sample of sand does not have filler (powder with particles size below 80  $\mu\text{m}$ ).

In order to use the PLASTER SAND COD.001 in Personal Factory products especially in ISOLCOLL products it is necessary to sieve the sand with a 800 $\mu\text{m}$  sieve. To improve the workability of the products can be added about 20% of filler RIMACAL 6090.

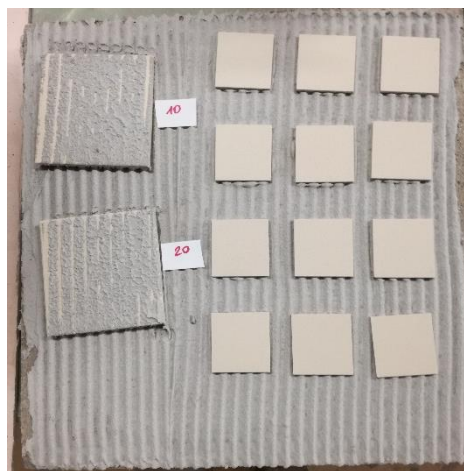
The sand can be also used in ISOLMIX, RESTAUROMIX (only for the products as RESTAUROMIX TX RASO 10/20/50), ISOLFUGA and ISOLVASCHE products.

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

#### RESULTS OF THE TEST

Plaster Sand cod.001 was tested in the ISOLCOLL products

FORMULATION- ISOLCOLL A10 SUPER	
CHEMICAL KIT	2.0%
GREY CEMENT	25.5%
PLASTER SAND	51.0%
RIMACAL 6090	21.5%



The results of the test show that the sand can be used in the ISOLCOLL Products. It has a good workability and a good wetting capability over 20 minute. The test confirms the property of the tile adhesive.

DATE  
28/04/2017

PERSONAL FACTORY REFERENT  
Ing. Maria Grazia Spagnolo