

The logo for eOMITS features a stylized 'e' composed of numerous small blue circles of varying sizes, arranged in a roughly circular pattern. To the right of this graphic, the text 'eOMITS' is written in a clean, white, sans-serif font.

eOMITS

The Price House logo is presented on a white rectangular background. The word 'Price' is written in a large, bold, black, lowercase sans-serif font, with a registered trademark symbol (®) positioned to its upper right. Below 'Price', the word 'House' is written in a similar bold, black, lowercase sans-serif font, also with a registered trademark symbol (®) to its upper right.

Price[®]
House[®]

The Autogrill logo is set against a solid red square background. It features a large, white, stylized letter 'A' that incorporates a swooshing underline element. A registered trademark symbol (®) is located to the right of the 'A'. Below the graphic, the word 'AUTOGRIll' is written in a bold, white, uppercase sans-serif font.

AUTOGRIll

 GeoMITS



The Rice House logo consists of the word 'rice' in a lowercase, bold, sans-serif font with a registered trademark symbol (®) to its upper right. Below it, the word 'house' is written in a larger, lowercase, bold, sans-serif font.

I WAS A COFFEE PROJECT

Dr. Alex Reggiani, GeoMITS, Italy

Dr. Alessio Colombo, Rice House, Italy

Dr. Tiziano Rossi, Rice House, Italy

OUTLINE

GeoMITS, Rice House and Autogrill
introduction

Geopolymer based coffee grounds and
rice husk lightweight precast tables

Final Properties of the GP material

Application on the market



GeoMITS

MATERIAL
INNOVATION
TECHNOLOGY
SERVICE

GeoMITS is focalized on :

Consulting, R&D and supplying about Geopolymer binders (reactive powders and liquid hardeners) for several applications

Customizing of automatic mixing plants (mobile and fixed central beton) for production from laboratory to industrial scale

360° Service about designing of final geopolymer recipes included choice of best partially reactive aggregate curve and intermediation between clients and aggregates supplier



Rice House

Rice House is benefit company focalized on :

Since 2016 as startup the company was focused on creating synergies between companies to design and manufacturing products using sustainable raw materials from agricultural waste and rice processing waste, inside a circular economy approach.

The mission is changing the world of constructions to create the rice based house using the most possible recycled material thanks to more sustainable and not Portland clinker based binders.



Autogrill

Autogrill is company focalized on :

From an idea of the entrepreneur Mario Pavesi by the late 1950s the first store created by Pavesi had evolved into an established business, opening several gas stations connected with shop/bar till having real restaurants along the highways.

The company become private and named Autogrill S.p.a. in 1993

Today the Autogrill brand is owned by the Benetton Group and it's spread worldwide.

Ground coffee is organic-inorganic waste and it's considered as special waste



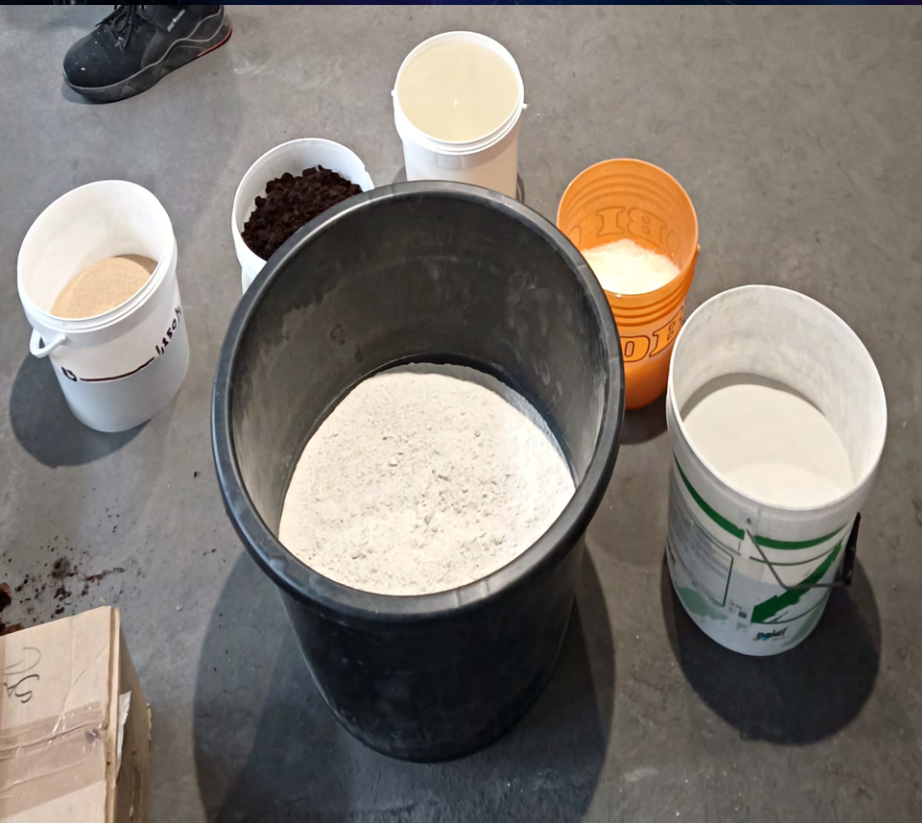
I WAS A COFFEE PROJECT

From a collaboration between Rice House and Autogrill, GeoMITS was commissioned to develop a Geopolymer based material that could be used to precast the tables and the tiles necessary to be used inside the new bar and restaurants through the italians highway roads, recycling the coffee grounds and ,at the same time, using the lightweight ground rice husk to obtain the perfect consistency and workability of the hardened pieces.

The project was called I was a coffee



I WAS A COFFEE PROJECT



INDUSTIAL TESTING AT RICE HOUSE

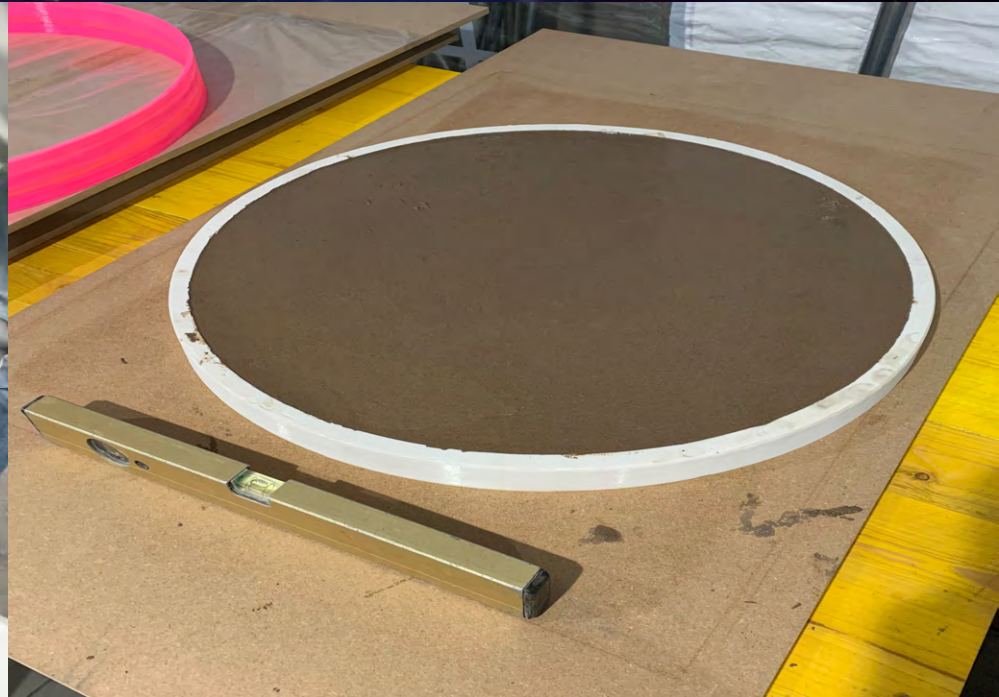
- MIX DESIGN: GP BINDER FIRST (METAKAOLIN BASED AND POTASSIUM SILICATE REAGENT)
- ADDICTION OF GROUNDS COFFEE (HUMID)
- ADDICTION OF PREMIXED GROUND RICE HUSK AND FUNCTIONAL AGGREGATES (REACTIVE MINERALS)
- ADDICTION OF FIBER AND IF NECESSARY 1-2% OF EXTRA WATER

 eoMITS



rice[®]
house

I WAS A COFFEE PROJECT



GP BINDER MIXING

READY FRESH PRODUCT

PRECAST TABLE AFTER VIBRATION

 eoMITS



rice[®]
house

I WAS A COFFEE PROJECT



DEMOLDING ROUND TABLE



DEMOLDING RECTANGULAR TABLE

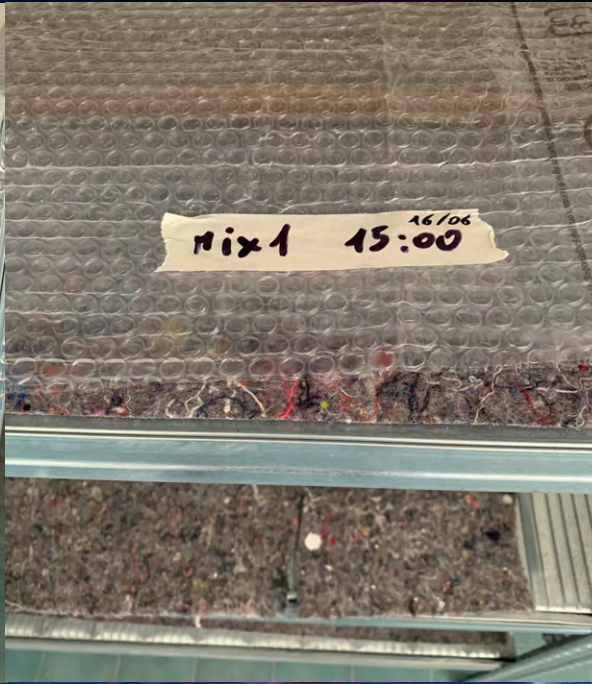


DEMOLDING TILES

 eoMITS



I WAS A COFFEE PROJECT



ROOM TEMPERATURE CURING

FIRST MIX OF 10-15 PER DAY

CURED AND ASSEMBLED WITH FEET



I WAS A COFFEE PROJECT



AT VILLORESI OVEST CLOSE TO MILANO ONE OF THE MOST OLD AUTOGRILL IN ITALY

 eoMITS



rice[®]
house

I WAS A COFFEE PROJECT



PALERMO AIRPORT AUTOGRILL

3D EFFECT OBTAINED USING GP TILES



I WAS A COFFEE PROJECT



MATERIAL PROPERTIES

- DENSITY = 1,05 g/cm³ (LIGHTWEIGHT)
- FLEXURAL STRENGTH = 6 to 8 MPa
- COMPRESSIVE STRENGTH = 14 to 17 MPa
- FIREPROOF (PROPANE FLAME 1200°C)
- OIL / WATER PROOF (WITH NANO TREATMENT)



eoMITS


AUTOGRIFF

rice[®]
house

THANKS FOR YOUR KIND ATTENTION



 eoMITS



rice[®]
house

CONTACTS

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eOMITS

The logo for Rice House is presented on a white rectangular background. It consists of the word 'rice' in a bold, lowercase, sans-serif font with a registered trademark symbol (®) to its upper right, and the word 'house' in a larger, bold, lowercase, sans-serif font directly below it.

rice[®]
house

The logo for Autogrill is set against a solid red square background. It features a large, white, stylized letter 'A' with a curved underline that sweeps from the base of the 'A' to the right. A registered trademark symbol (®) is positioned to the right of the 'A'. Below the graphic, the word 'AUTOGRILL' is written in a bold, white, uppercase, sans-serif font.

A[®]
AUTOGRILL