



Amuri is Ragno's new collection that features products with handcraft aesthetics. The material inspiration stems from handmade terracotta, with marked edges and light clouds on the surface. Peculiarities of traditional ceramics interpreted with the most innovative production technologies to compose a versatile collection with a decorative soul, a tribute to the Mediterranean tradition and the know-how of its skilled craftsmen.

AMURI



**materiali mutevoli nascono
da sensazioni tattili e
dai colori della terra**





The current trend invites you to surround yourself with textural and tactile products. Thanks to its features, handcraft ceramics are perceived as a natural product and not an artefact. There is a growing desire to recover this material in its purest form, where imperfection and defect represent its added value. Houses are enriched with warm and sensory surfaces that tell a story: a mix of elements with the sole aim of creating a cosy and comfortable setting.

The collection is available in the conventional 20x20 cm size with straight edges for an almost juxtaposed installation and in the new 5.3x30 cm brick with slightly out-of-square edges to emphasise the handcraft origin of the product.



Tradition and contemporaneity are balanced in a colour palette of earthy tones presented on a natural surface that re-edits the traditional cotto.

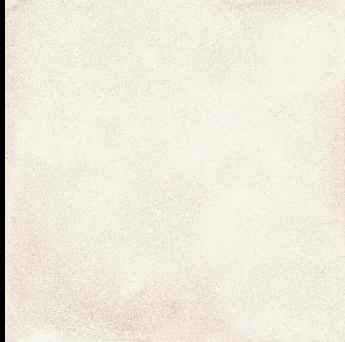


Amuri

53x300mm Matt
200x200mm Matt
200x200mm 3D Matt Décor



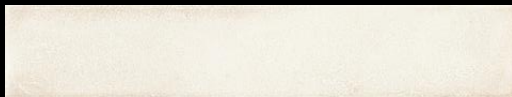
Avorio White



2AMUWHM



2AMUWH3D

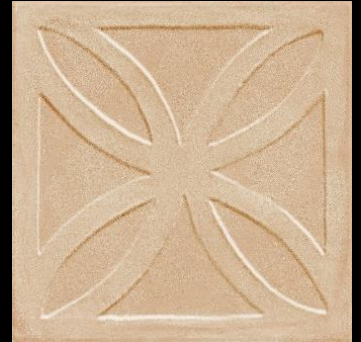


13AMUWHM

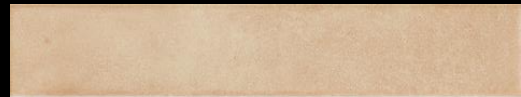
Biscotto Beige



2AMUBEM



2AMUBE3D

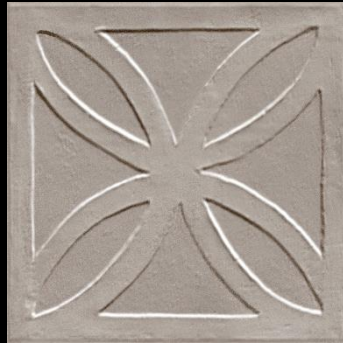


13AMUBEM

Grigio Grey



2AMUGYM

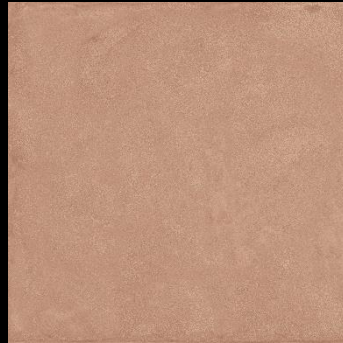


2AMUGY3D



13AMUGYM

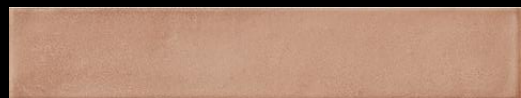
Cotto Terracotta



2AMUTEM



2AMUTE3D



13AMUTEM



Technical
Porcelain

Cushioned
Edge

V3
Variation



GNS Ceramics recommends that our retail shops pass on the following information to the installer and end-user.



Click or Scan for Installation Instructions

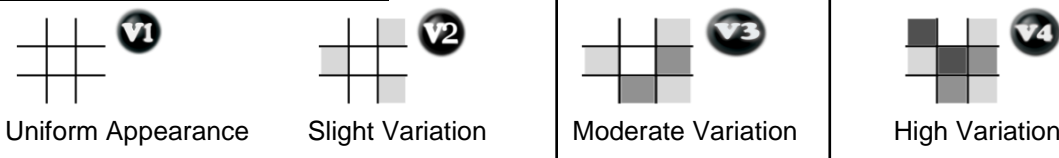
Ceramic tiles are only one component of a much larger building system. It is our experience that failure of any tiling system is very often the result of a combination of factors. For example; inappropriate design, type of substrate, surface preparation, temperature during installation, adhesives, incompatibility of products, product failure, environmental factors skill and knowledge of the installers etc; the latter being supplied or controlled by a variety of manufacturers and tradesmen. GNS Ceramics has no involvement in the design, selling and installation processes and once goods have been dispatched from our warehouse we have no control over where and how these products are used. As a result the project manager, and or the tiler are the only people in a position to ensure that all the components used in a project are compatible and that the product is installed in accordance with the Australian Building Code and the Australian Standards.

Installation Instructions for all types of tiles can be found in the GNS Ceramics Price List, and on our website. We suggest these are followed at all times.

Cleaning and Maintenance

Do not use abrasive cleaners and chemicals which could permanently scratch and damage the surface of the tile. For daily cleaning we recommend the use of a mild PH Neutral detergent. Should a more vigorous cleaning programme be required we recommend the use of a proprietary tile cleaner from a specialty tile supplier.

Colour & Pattern Variation Guide



Slip Resistance

The best way to minimise the risk of slipping is through safe design principals. This involves a risk management approach which evaluates the likelihood and consequence of an incident to occur. Slip resistive flooring is only one of the design components to consider, other design features should also be considered, including awnings, airlocks, matting and a suitable cleaning regime to reduce the extent of contaminates. Visual aids, warning signs, handrails and lighting, along with the footwear to be worn, should also be considered.

All ceramic tiles can be slippery, particularly when wet. This includes tiles, commonly used in wet areas such as bathrooms. It is important that customers be aware of the potential danger of wet ceramic tiles and seek advice from the retailer as to the level of slip-resistance of any particular tile, and its suitability for the intended application. If there is any doubt, tiles should be tested for slip-resistance immediately after being laid, under the conditions that they will be subject to during use. While tiles may achieve an acceptable standard in a laboratory test, it is quite probable that the performance in-situ will be less than expected, due to installation methods, wear & tear, cleaning regimes and unforeseen circumstances. Test results should therefore to be seen as a relative guide to estimate the merits of one tile versus another and should be used in conjunction with the Australian Building Code and the relevant Australian Standards. Further information on slip resistance is provided in the Australian Standards HB198:2014 - An Introductory guide to the slip resistance of pedestrian surface materials.

There are many factors beyond the control of the supplier that can affect the level of slip-resistance of tiles, or contribute to the incidents of injury through slipping. Consequently, the laboratory test results presented here must not be viewed to mean that GNS Ceramics Pty Ltd, is providing any warranty, nor will accept any liability for personal injury or accidents arising from the selection or installation of tiles under any circumstances.

Classes of Use

The classification has taken into account the recommendations of the Australian Standards; however, they are given for general guidance only. They are valid for the given application under **NORMAL CONDITIONS** and should not be taken to provide accurate product specifications for specific requirements.

WARNING: Other standards and building code requirements may affect your selection of tiles.

Consideration should be given to the footwear, type of pedestrian traffic and cleaning methods expected. Floors should be adequately protected against soiling from following trades during installation; they should also be protected against scratching dirt at the entrances to building by interposing footwear cleaning devices. For example, mats, shoe scrapers, static devices, etc.

CLASS 1 - Floor coverings in areas that are walked on with soft soled footwear or bare feet without scratching dirt; For example, residential en-suite bathrooms without direct access from the outside.

CLASS 4 - Floor coverings that are walked on by regular traffic with some scratching dirt so that conditions are more severe than CLASS 3; For example, entrances, laundries with external access, living areas, entertainment areas, patio's, sales rooms, motels.



TECHNICAL FEATURES	
Collection: Amuri	Brand: Ragno
Size (cm): 5.3x30 - 20x20	Thickness (mm): 10

Technical Features	Testing Method	Meas. unit	Average Typical Values	Established limits
PHYSICAL PROPERTIES				
Water absorption	ISO 10545-3	(%)	≤ 0,5	Eb ≤ 0,5 (Individual maximum value 0,6%)
Color Uniformity (8)	ASTM C609 and Section 9.3		Compliant	V0 – 3 Judds
Modulus of rupture	ISO 10545-4	(N/mm ²)	≥ 35	R ≥ 35 (Individual minimum value 32 N/mm ²)
Breaking Strength	ISO 10545-4	(N)	≥ 1300	≥ 1300 (Thickness ≥ 7,5 mm) ≥ 700 (Thickness < 7,5 mm)
Resistance to surface abrasion	Internal Method		Intended use - Class G	
Visible Abrasion Resistance	ASTM 1027		Dark Colors: IV Light Colors: V	Declared Value
Linear thermal expansion coefficient	ISO 10545-8	(x(10)-6/°C)	≤ 9	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Thermal shock resistance	ISO 10545-9		Complies with the standards	Declared value (EN 14411:2016) **** Test Method available (ISO 13006:2018)
Thermal Shock (5)	ASTM C484		Pass	Pass
Crazing Resistance	ISO 10545-11		Complies with the standards	Pass according to EN ISO 10545-1 (EN 14411:2016) Required (ISO 13006:2018)
Frost resistance	ISO 10545-12		Complies with the standards	Pass according to EN ISO 10545-1 (EN 14411:2016) Required (ISO 13006:2018)
Resistance to Freeze/ Taw Cycling	ASTM C1026		No damage	Declared Value
Reaction to fire	-	-	A1 FL / A1	Class A1 or Class A1 FL (EN 14411:2016)
Color resistance to light exposure	DIN 51094		Complies with the standards	No sample must show noticeable colour modifications.
Bond Strength	ASTM C482		Compliant	≥ 50 psi (0.34 MPa)

- (1) Whichever is less.
 (2) May not apply to textured surfaces or tiles with uneven back patterns.
 (3) Whichever is less, for tiles up to 24" (610 mm) on any side
 (4) Applies to tiles larger than 24" (610 mm) on any side
 (5) Glazed tiles only.
 (6) When installation subject to freeze/thaw conditions.
 (7) For Level interior spaces expected to be walked upon when wet (see Section 6.2.2.1.10)
 (8) Class V0 tile only



TECHNICAL FEATURES	
Collection: Amuri	Brand: Ragno
Size (cm): 5.3x30 - 20x20	Thickness (mm): 10

Technical Features	Testing Method	Meas. unit	Average Typical Values	Established limits
CHEMICAL PROPERTIES				
Resistance to chemicals for household use and swimming pool salts	ISO 10545-13		A	GB Minimum (EN 14411:2016) GB Minimum (ISO 13006:2018)
Resistance to low concentrations of acids and alkalis	ISO 10545-13		LA-LB	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Resistance to high concentrations of acids and alkalis	ISO 10545-13		HA-HB	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Stain resistance	ISO 10545-14		Class 5	Minimum class 3 (EN 14411:2016) Minimum class 3 (ISO 13006:2018)
ANTISLIPPERY PROPERTIES				
Slipperiness Resistance: Ramp Method	DIN EN 16165 Annex B (ex DIN 51130); ASR A1.5		R9	from R9 to R13
Slipperiness Resistance: Ramp Method	DIN EN 16165 Annex A (ex DIN 51097) DGUV Information 207-006		A	from A to C
Slipperiness Resistance: B.C.R.	D.M. N.236 14/6/89		$\mu > 0,40$	$\mu > 0,40$
Slipperiness Resistance: Pendulum	UNE EN 16165 Appendix C (ex UNE 41901:2017 EX - DB SUA)		Class 1	From Class 0 to Class 3
Dynamic coefficient of friction (DCOF)	ANSI 326:3:2021		$\geq 0,42$ wet - IW	Interior Dry (ID) $\geq 0,42$ dry, Interior Wet (IW) $\geq 0,42$ wet, Interior Wet+ (IW+): Declared Value, Exterior Wet (EW): Declared value

* The work size shall be chose, for non-modular tiles, so that the difference between the work size and the nominal size is:

** The deviation, in percent, of the average size for each tile (2 or 4 sides) from the work size..

**** See Table 2 for uses where it is applicable

c.c. Centre curvature, related to diagonal calculated from the work sizes

e.c. Edge curvature, related to the corresponding work sizes.

w. Warpage, related to diagonal calculated from the work sizes.



TECHNICAL FEATURES	
Collection: Amuri	Brand: Ragno
Size (cm): 5.3x30 - 20x20	Thickness (mm): 10

[PAGINA VOLUTAMENTE LASCIATA IN BIANCO]
 [PAGE INTENTIONALLY LEFT BLANK]
 [PAGINA DEJADA EN BLANCO INTENCIONADAMENTE]
 [CETTE PAGE A ETE LAISSEE DELIBEREMENT BLANCHE]
 [SEITE WURDE ABSICHTLICH LEER GELASSEN]

MARAZZI GROUP

Safety Data Sheet CERAMIC TILES

Rev.10 date: 3 March 2023

Printing date: 8 March 2023

Pag.1 / 8

1. IDENTIFICATION OF PRODUCT AND COMPANY

- 1.1 Product name: Dry-pressed ceramic tiles - brand MARAZZI, RAGNO
1.2 Use: Floor and wall coverings
1.3 Company name: MARAZZI GROUP S.r.l. a socio unico
Address: Via Regina Pacis, 39 – 41049 Sassuolo (MO) Italy
Telephone: +39 0536 860800
Fax: +39 0536 860644
e-mail: ambiente@marazzigroup.com
- 1.4 Company's emergency telephone number:
+39 0536 860800 Reference Health, Safety and Environment Manager

2. HAZARDS IDENTIFICATION

- 2.1 Hazard classification as required by dir. CE 1272/2008:
not classified
- 2.2 Labelling as required by dir. CE 1272/2008:
not subject to hazard labelling
- 2.3 Other hazards:
The finished product is odorless, non-flammable, do not release hazardous materials after installation, and pose no immediate hazard to health and environment.
Hazard components as required by dir. 67/548/CE and reg. 1272/2008/CE or with occupational exposure limits are associated only to airborne particulates present into the dust produced by dry-cutting product during installation or by any other operations, including demolition/removal projects.
Hazard Statements:
H350 May cause cancer (inhalation)
H335 May cause respiratory irritation
H372 Causes damage to organs (lung/respiratory) through prolonged or repeated exposure (inhalation)

3. COMPOSITION / INFORMATION ABOUT COMPONENTS

- 3.1 Substances:.
N.A.
- 3.2 Mixtures:
Mixture of natural mineral substances and inorganic pigments.
Ceramic tiles are no hazardous-material fired at very high temperature (> 1200°C - > 2190°F) consisting of a ceramic support and an optional glaze decoration. The ceramic support is composed by: clay, feldspars, quartz feldspar sands and inorganic pigments. The glaze, if occurring, is composed by frits, pigments and other substances as silica, oxydes, carbonates, in variable percentage depending on the different surface (matt, glossy...) and different colours and chromatic effects. These products do not contain asbestos.



Marazzi Group Srl a Socio Unico Viale Regina Pacis, 39 41049 Sassuolo (MO) Italy
T +39 0536 860800 F +39 0536 860644 info@marazzi.it www.marazzi.it

Cap.Soc. Euro 102.232.000 Int.Vers. P.Iva e Cod. Intrastat IT 00611410374 C.F.E.N di Iscrizione Reg. Impr. de Mo 00611410374 R.E.A. Modena N. 49219 N. Meccanografico MO 041028 Società soggetta a discrezione e coordinamento di Mohawk Industries, Inc.

MARAZZI GROUP

Safety Data Sheet CERAMIC TILES

Rev.10 date: 3 March 2023

Printing date: 8 March 2023

Pag.2 / 8

Composition	CAS number	Estimated % by Wt/Wt
Silica amorphous	7631-86-9	70 - 80
Crystalline silica as QUARTZ	14808-60-7	10 – 15
Mullite	1302-93-8	2.5 - 5
Plagioclase (Feldspar)	68476-25-5	1.5 – 4.5
K-Feldspar	68476-25-5	0 – 0.5
Corundum	1302-74-5	0 – 2.5
Zirconium Silicate	10101-52-7	0 – 2.5

4. FIRST AID MEASURES

4.1 Description of first aid measures:

Ceramic tiles pose no health hazards as packaged. During installation and while dry-cutting the tiles the following possible health effects could occur if Personal Protective Equipments (PPE) are not worn properly:

EYES	Dust and small shards of tile could cause eye irritation and possible eye injury. Rinse eyes with clean water for at least 15 minutes. If irritation persists seek medical attention.
SKIN	Dust and sharp edges generated during installation could cause irritation and lacerations. Wash hands thoroughly with soap and water after handling, dressing the wound. In case of serious injury or persistent irritation seek medical attention.
INHALATION	Inhalation of dust generated during installation could cause upper respiratory tract irritation and in rare cases allergic/asthmatic reactions. Move the affected person from exposure area, to fresh air. If irritation persists seek medical attention.
INGESTION	Ingestion of small amounts of dust should not cause harmful effects. Larger pieces could damage the intestinal tract. Seek medical attention if nausea develops.

4.2. Most important symptoms and effects, both acute and delayed:

Some skin irritation may occur from contact with the powder resulting from dry-cutting operations.

During the floor installation process, dry-cutting stage may produce respirable crystalline silica. Prolonged and/or large-scale inhalation of respirable crystalline silica dust may cause pulmonary fibrosis, commonly known as silicosis. The main symptoms of silicosis are coughing and shortness of breath. Occupational exposure to respirable crystalline silica dust must be monitored and controlled.

4.3. Indication of any immediate medical attention and special treatment needed:

In case of accident or if you feel unwell, seek medical advice immediately (show user's guide or safety data sheet if possible). In case of persistent adverse effects consult a doctor showing this safety data sheet.

Treatment: None.



Marazzi Group Srl a Socio Unico Viale Regina Pacis, 39 41049 Sassuolo (MO) Italy

T +39 0536 860800 F +39 0536 860644 info@marazzi.it www.marazzi.it

Cap.Soc. Euro 102.232.000 Int.Vers. P.Iva e Cod. Intrastat IT 00611410374 C.F.E.N di Iscrizione Reg. Impr. de Mo 00611410374 R.E.A. Modena N. 49219 N. Meccanografico MO 041028 Società soggetta a discrezione e coordinamento di Mohawk Industries, Inc.

MARAZZI GROUP

Safety Data Sheet CERAMIC TILES

Rev.10 date: 3 March 2023

Printing date: 8 March 2023

Pag.3 / 8

5. FIRE - FIGHTING MEASURES

Ceramic tiles are incombustible under normal circumstance

Flash point (Method Used):	N.A.
Flammable limits:	N.A.
Autoignition Temperature:	N.A.

5.1. Recommended extinguishers:

None specific for ceramic tiles. Use extinguishers according to other materials involved in the fire.

5.2. Risks arising from combustion:

None.

5.3. Personal protection equipment:

None specific for ceramic tiles. Follow the provided measures for the other materials involved in the fire.

6. MEASURES IN CASE OF ACCIDENTAL SPILLING

Ceramic tiles are solid materials and do not involve spilling. Pieces falling from damaged packages during transport or laying are inert materials, whether entire or broken.

Avoid creating excessive dust during cutting activities. Clean up dust with a vacuum system with a High-efficiency particulate (HEPA) air filter vacuum or damp sweeping. See Section 8 of this SDS concerning PPE (Personal Protective Equipments) information for clean-up.

7. HANDLING AND STORAGE

7.1 Safety handling:

If possible use mechanical transport devices to avoid the manual transport. No more than one package should be transferred by hand at a time to prevent personal injury.

When cutting, grinding or removing, use equipment with integral dust collection and/or use local exhaust ventilation. Use wet cutting methods to reduce generation of dust. Use respiratory protection in the absence of effective engineering controls.

7.2 Safety storage, including any incompatibilities:

When storing on shelves or racks the weight of the tiles should be taken into account to prevent the overloading of the shelf unit.

Shelf life is unlimited.

7.3. Specific end use:

None



Marazzi Group Srl a Socio Unico Viale Regina Pacis, 39 41049 Sassuolo (MO) Italy

T +39 0536 860800 F +39 0536 860644 info@marazzi.it www.marazzi.it

Cap.Soc. Euro 102.232.000 Int.Vers. P.Iva e Cod. Intrastat IT 00611410374 C.F.E.N di Iscrizione Reg. Impr. de Mo 00611410374 R.E.A. Modena N. 49219 N. Meccanografico MO 041028 Società soggetta a discrezione e coordinamento di Mohawk Industries, Inc.

MARAZZI GROUP

Safety Data Sheet CERAMIC TILES

Rev.10 date: 3 March 2023

Printing date: 8 March 2023

Pag.4 / 8

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Ceramic tiles are inert materials and studies have demonstrated that there is no danger of chemical substances or radioactivity release. Installation and dry-cutting the tiles may cause risks to personal safety.

8.1 Occupational exposure limit values of components (ACGH), consult national regulations if any:

Total dust (TLV/TWA)

TLV TWA - 10 mg/m³

TLV STEL - n.d.

Dust – respirable fraction (TLV-TWA)

TLV TWA - 3 mg/m³

TLV STEL - n.d.

Crystalline Silica as QUARTZ – respirable fraction:

TLV TWA - 0.1 mg/m³

TLV STEL - n.d.

8.2 Exposure controls:

Engineering controls: minimize the generation of dust dispersed through local exhaust ventilation when cutting and installing tiles. Remove and wash contaminated clothing. Occupational exposure to crystalline silica dust should be monitored and controlled

Wet cutting methods are recommended.

Personal Protective Equipments (PPE):

EYES Not required for normal use. Use dust-proof goggles or safety glasses with side shields. Contact lenses may absorb irritants. Do not wear contact lenses in work areas.

SKIN When cutting this product, cotton or leather work gloves should be worn to minimize skin exposure to dust and/or cuts. Wash hands prior to eating, drinking, or smoking, and at the end of the work shift, after cutting operations are conducted.

RESPIRATORY TRACT A dust mask should be worn when dry cutting tiles, in compliance with national legislation. Use of proper PPE it is still always recommended during tiles cutting, grinding and removing stages

OTHER HAZARDS Wear safety shoes during transport and handling tiles to avoid injuries (crushing due to falling material).

9. CHEMICAL AND PHYSICAL PROPERTIES

Appearance and colour:

Brittle solid, color may vary

Odour:

Odourless

Melting point/freezing point:

N.A. (> 2200°F - >1200°C)

Initial boiling point and boiling range:

N.A.

Flammability (solid/gas):

Not flammable

Upper/lower flammability or explosive limit:

N.A.

Vapour density:

N.A.

Flash point:

N.A.

Evaporation rate:

N.A.



Marazzi Group Srl a Socio Unico Viale Regina Pacis, 39 41049 Sassuolo (MO) Italy

T +39 0536 860800 F +39 0536 860644 info@marazzi.it www.marazzi.it

Cap.Soc. Euro 102.232.000 Int.Vers. P.Iva e Cod. Intrastat IT 00611410374 C.F.E.N di Iscrizione Reg. Impr. de Mo 00611410374 R.E.A. Modena N. 49219 N. Meccanografico MO 041028 Società soggetta a discrezione e coordinamento di Mohawk Industries, Inc.

MARAZZI GROUP

Safety Data Sheet CERAMIC TILES

Rev.10 date: 3 March 2023

Printing date: 8 March 2023

Pag.5 / 8

Vapour pressure:	N.A.
Solubility in water:	Insoluble
Specific Gravity (H ₂ O = 1):	> 2
Solubility in oil:	N.A.
Partition coefficient n-octanol/water:	N.A.
Auto-ignition temperature:	Not self-inflammatory
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidising properties:	N.A.
Volatility:	0 g/L Volatil Organic Comp. (VOCs)

10. STABILITY AND REACTIVITY

Ceramic tiles are stable under normal conditions of use and don't react dangerously with most solvents, acids, or caustics.

Reactivity:	Inert
Chemical stability:	Stable in normal conditions
Conditions to avoid:	None in particular
Physical Stability:	Stable in normal conditions
Incompatible materials	None in particular
Hazardous decomposition products:	None in particular
Hazardous Polymerization:	None

11. TOXICOLOGICAL INFORMATIONS

No toxicological effects are associated with intact ceramic tiles. The following data refer to the RESPIRABLE CRYSTALLINE SILICA that is generated during cutting and demolition activities:

acute toxicity	Data are missing or insufficient
skin corrosion / irritation	Missing or insufficient
eye Injury / irritation:	Missing or insufficient
sensitization of skin or respiratory tract:	Missing or insufficient
mutagenicity:	Missing or insufficient
carcinogenicity:	CATEGORY 1A
toxicity for reproduction:	Missing or insufficient
specific target organ toxicity (STOT) — single exposure:	CATEGORY 3 Respiratory tract irritation
specific target organ toxicity (STOT) — repeated exposure:	CATEGORY 1A respiratory effects (pulmonary fibrosis, silicosis)
inhalation hazard:	Missing or insufficient

Effects on health:

The repeated and prolonged inhalation of fine dust of crystalline silica at or above allowable occupational



Marazzi Group Srl a Socio Unico Viale Regina Pacis, 39 41049 Sassuolo (MO) Italy
T +39 0536 860800 F +39 0536 860644 info@marazzi.it www.marazzi.it

Cap.Soc. Euro 102.232.000 Int.Vers. P.Iva e Cod. Intrastat IT 00611410374 C.F.E.N di Iscrizione Reg. Impr. de Mo 00611410374 R.E.A. Modena N. 49219 N. Meccanografico MO 041028 Società soggetta a discrezione e coordinamento di Mohawk Industries, Inc.

MARAZZI GROUP

Safety Data Sheet CERAMIC TILES

Rev.10 date: 3 March 2023

Printing date: 8 March 2023

Pag.6 / 8

exposure limits may lead to the development of silicosis (a nodular pulmonary fibrosis), and are associated with pulmonary tuberculosis, bronchitis, emphysema, and other airway diseases.

This type of exposure may also be related to the development of autoimmune disorders, chronic renal disease, and other adverse health effects.

Recent epidemiologic studies demonstrate that workers exposed to elevated silica concentrations have a significant risk of developing chronic silicosis. Signs such as labored breathing and early fatigue may indicate silicosis; however, these symptoms can arise from many other causes.

Silicosis may be complicated by severe mycobacterial or fungal infections and result in tuberculosis (TB). Epidemiologic studies have established that silicosis is a risk factor for developing TB. Any existing respiratory or pulmonary diseases may be complicated by exposure to respirable crystalline silica. Smoking may increase the risk of adverse effects if done in conjunction with occupational exposure to.

Respirable crystalline silica is classified by the International Agency for Research on Cancer (IARC) as a Group I Carcinogen (carcinogenic to humans). The National Toxicology Program (9th Report) lists respirable crystalline silica as Known to be a Human Carcinogen. USDOL/OSHA and NIOSH have recommended that crystalline silica be considered a potential occupational carcinogen.

Short term experimental studies of rats have found that intratracheal instillation of quartz particles leads to the formation of discrete silicotic nodules in rats, mice and hamsters.

Oral (silica) Lethality

LD50 Rat oral >22,500 mg/kg

LD50 Mouse oral >15,000 mg/kg

LC50 Carp >10,000 mg/l (per 72 hr)

12. ENVIRONMENTAL INFORMATION

Data about the environmental impact of ceramic tiles are not available. However no environmental risk or transformations caused by ceramic tiles in air, water and / or soil may be expected because of their inert nature.

Toxicity:	Adopt good working practices and do not discharge the product into the environment
Persistence and degradability:	N.A.
Bio accumulative potential:	N.A.
Mobility in soil:	N.A.
PBT and vPvB:	N.A.
Other adverse effects:	None

13. DISPOSAL CONSIDERATIONS

Avoid release to the environment scrap of ceramic tiles from installation, handling and at life-cycle ending. Scrap ceramic tiles are not hazardous wastes so no particular techniques of recovering or treatment are required. Scrap ceramic tiles and their packaging (paper and cardboard - plastic - wood – undifferentiated) should be disposed of in accordance with applicable national and local regulations.



Marazzi Group Srl a Socio Unico Viale Regina Pacis, 39 41049 Sassuolo (MO) Italy

T +39 0536 860800 F +39 0536 860644 info@marazzi.it www.marazzi.it

Cap.Soc. Euro 102.232.000 Int.Vers. P.Iva e Cod. Intrastat IT 00611410374 C.F.E.N di Iscrizione Reg. Impr. de Mo 00611410374 R.E.A. Modena N. 49219 N. Meccanografico MO 041028 Società soggetta a discrezione e coordinamento di Mohawk Industries, Inc.

MARAZZI GROUP

Safety Data Sheet CERAMIC TILES

Rev.10 date: 3 March 2023

Printing date: 8 March 2023

Pag.7 / 8

14. TRANSPORT INFORMATION

UN number: Not dangerous goods according to transport regulations
UN shipping name: N.A.
Danger classes related to transport: N.A.
Packaging group: N.A.

Dangers for the environment
ADR-Environmental pollutant: No
IMDG-Marine pollutant: No
Special precautions for users: N.A.
Transport in bulk according to Annex II of MARPOL and the IBC Code: N.A.

15. REGULATORY INFORMATION

15.1. Specific rules on health, safety and environment related to the product:

Regulation (EU) n. 1907/2006 (REACH):
- SVHC art. 57 (Candidate List): N.A.
- Authorization (Annex XIV): N.A.
- Restrictions (Annex XVII): N.A.

Regulation (EU) n. 1272/2008 (CLP): N.A.

Dir 2012/18/EU – control of major-accident hazards (SEVESO): N.A.

This product and/or its components have been previously introduced into U.S. commerce and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals in Commerce. Hence, it is subject to all applicable provisions and restrictions under TSCA 40 CFR Section 721 and 723.250.

This product contains <1 percent by weight each of the following elements, which are SARA 313 Recordable: Antimony, Arsenic, Barium, Beryllium, Cadmium, Cobalt, Chromium, Copper, Manganese, Mercury, Nickel, Lead, Silver, Thallium, Tin, Titanium, Vanadium, and Zinc.

Title 22 Division 2, California Code of Regulation Chapter 3 (Proposition 65): This product contains a chemical or chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

This product or its components meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

Combustible Liquid	Flammable Aerosol	Oxidizer
Compressed Gas	Explosive	Pyrophoric
Flammable Gas	X Health Hazard (Sections 3 & 11)	Unstable
Flammable Liquid	Organic Peroxide	Water Reactive
Flammable Solid		



Marazzi Group Srl a Socio Unico Viale Regina Pacis, 39 41049 Sassuolo (MO) Italy
T +39 0536 860800 F +39 0536 860644 info@marazzi.it www.marazzi.it

Cap.Soc. Euro 102.232.000 Int.Vers. P.Iva e Cod. Intrastat IT 00611410374 C.F.E.N di Iscrizione Reg. Impr. de Mo 00611410374 R.E.A. Modena N. 49219 N. Meccanografico MO 041028 Società soggetta a discrezione e coordinamento di Mohawk Industries, Inc.

MARAZZI GROUP

Safety Data Sheet CERAMIC TILES

Rev.10 date: 3 March 2023

Printing date: 8 March 2023

Pag.8 / 8

Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

Note: **The information in this data sheet provides information related to the potential hazards associated with dusts which may be produced during cutting or otherwise changing the shape of the ceramic tile during installation and/or removal.**

15.2. Chemical safety assessment: N.A.

16. OTHER INFORMATIONS

This document has been prepared in accordance with the Occupational Safety and Health Administration (OSHA) Hazard Communication standard, 29 Code of Federal Regulations (CFR) 1910.1200(g), Safety Data Sheets.

According with REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals – EU Regulation 18/12/2006), ceramic tiles are classified as “ARTICLE: object with physical properties more important to its function than any chemical properties” so that, a SDS is not required/mandatory. Nevertheless, this SDS also complies with CLP Regulation EC1272/2008 (CLP).

This SDS has been prepared with the best knowledge and based on the information sources currently available. This data sheet replaces and cancels any previous version. Users' attention is also drawn to the possible risks connected to a use of the product other than that for which it was designed.

Abbreviations and Acronyms:

- N.A.: not applicable - not available
- LD50: Lethal dose for 50 percent of the test population.
- LC50: Lethal concentration for 50 percent of the test population.
- TLV: Threshold limit value.
- TWA: Time weighted average
- STEL: Short-term exposure limit.
- STOT: Organ-specific toxicity

Complete text about hazard statement in section 2:

- (H350) May cause cancer (inhalation)
- (H335) May cause respiratory irritation
- (H372) Causes damage to organs (lung/respiratory) through prolonged or repeated exposure (inhalation)



Marazzi Group Srl a Socio Unico Viale Regina Pacis, 39 41049 Sassuolo (MO) Italy
T +39 0536 860800 F +39 0536 860644 info@marazzi.it www.marazzi.it

Cap.Soc. Euro 102.232.000 Int.Vers. P.Iva e Cod. Intrastat IT 00611410374 C.F.E.N di Iscrizione Reg. Impr. de Mo 00611410374 R.E.A. Modena N. 49219 N. Meccanografico MO 041028 Società soggetta a discrezione e coordinamento di Mohawk Industries, Inc.