

GEMSTONES

Range Booklet



THE SURFACE WITHIN™

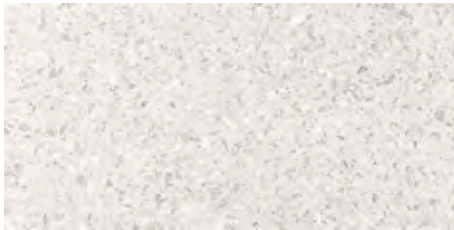
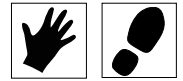
minoli

GEMSTONES TERRAZZO WHITE

minoli

TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE
THICKNESS: 10MM
SHADING: V2 MODERATE
SLIP RESISTANCE: MATT R10



GEMSTONES TERRAZZO WHITE LAPPATO
VC03216
30/60



GEMSTONES TERRAZZO WHITE LAPPATO MOSAICO
VC03325
30/30



GEMSTONES TERRAZZO WHITE LAPPATO
VC03200
60/60



GEMSTONES TERRAZZO WHITE MATT
VC03271
60/60



THE SURFACE WITHIN™

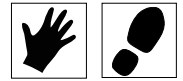
THIS LITERATURE IS INTENDED AS A GUIDE ONLY, PRINT CANNOT REPRODUCE A TRUE LIKENESS OF COLOUR, TONE OR TEXTURE. REFERENCE TO A SAMPLE IS ESSENTIAL

GEMSTONES TERRAZZO WHITE

minoli

TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE
THICKNESS: 10MM
SHADING: V2 MODERATE
SLIP RESISTANCE: MATT R10



GEMSTONES TERRAZZO WHITE LAPPATO
45/90
[SPECIAL ORDER](#)



GEMSTONES TERRAZZO WHITE MATT
45/90
[SPECIAL ORDER](#)



GEMSTONES ESAGONO OPTICAL
COLD LAPPATO MOSAICO
30.5/26.3
[SPECIAL ORDER](#)
(WHITE + GREY + BLACK)



THE SURFACE WITHIN™

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GEMSTONES TERRAZZO WHITE

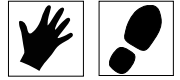


TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE

THICKNESS: 10MM

SHADING: V2 MODERATE



GEMSTONES TERRAZZO WHITE LAPPATO

75/150

[SPECIAL ORDER](#)



GEMSTONES TERRAZZO WHITE LAPPATO

75/75

[SPECIAL ORDER](#)

THE SURFACE WITHIN™

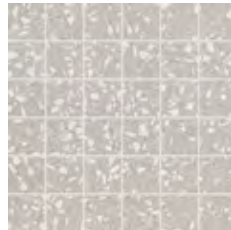
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GEMSTONES TERRAZZO PEARL

minoli



GEMSTONES TERRAZZO PEARL LAPPATO
30/60
SPECIAL ORDER



GEMSTONES TERRAZZO PEARL LAPPATO MOSAICO
30/30
SPECIAL ORDER



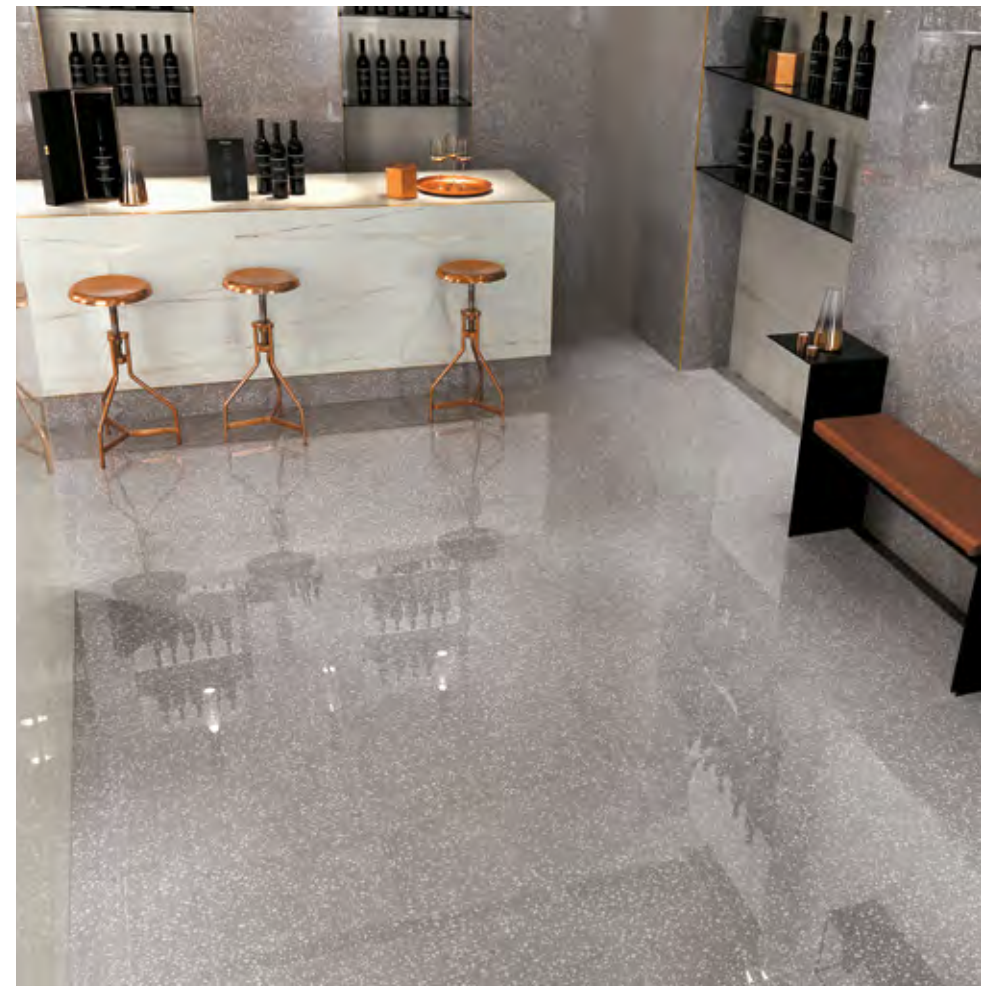
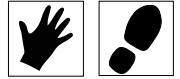
GEMSTONES TERRAZZO PEARL LAPPATO
60/60
SPECIAL ORDER



GEMSTONES TERRAZZO PEARL MATT
60/60
SPECIAL ORDER

TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE
THICKNESS: 10MM
SHADING: V2 MODERATE
SLIP RESISTANCE: MATT R10



THE SURFACE WITHIN™

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GEMSTONES TERRAZZO PEARL

minoli

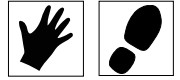
TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE

THICKNESS: 10MM

SHADING: V2 MODERATE

SLIP RESISTANCE: MATT R10



GEMSTONES TERRAZZO PEARL LAPPATO

45/90

[SPECIAL ORDER](#)



GEMSTONES TERRAZZO PEARL MATT

45/90

[SPECIAL ORDER](#)



THE SURFACE WITHIN™

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GEMSTONES TERRAZZO PEARL

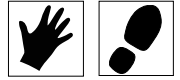
minoli

TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE

THICKNESS: 10MM

SHADING: V2 MODERATE



GEMSTONES TERRAZZO PEARL LAPPATO

75/150

[SPECIAL ORDER](#)



GEMSTONES TERRAZZO PEARL LAPPATO

75/75

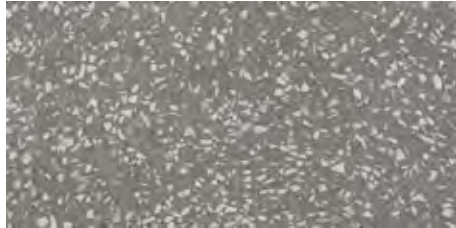
[SPECIAL ORDER](#)

THE SURFACE WITHIN™

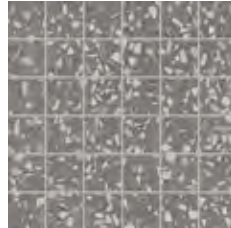
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GEMSTONES TERRAZZO GREY

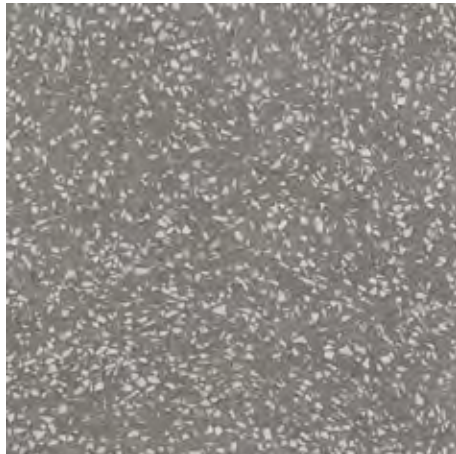
minoli



GEMSTONES TERRAZZO GREY LAPPATO
30/60
[SPECIAL ORDER](#)



GEMSTONES TERRAZZO GREY LAPPATO MOSAICO
30/30
[SPECIAL ORDER](#)



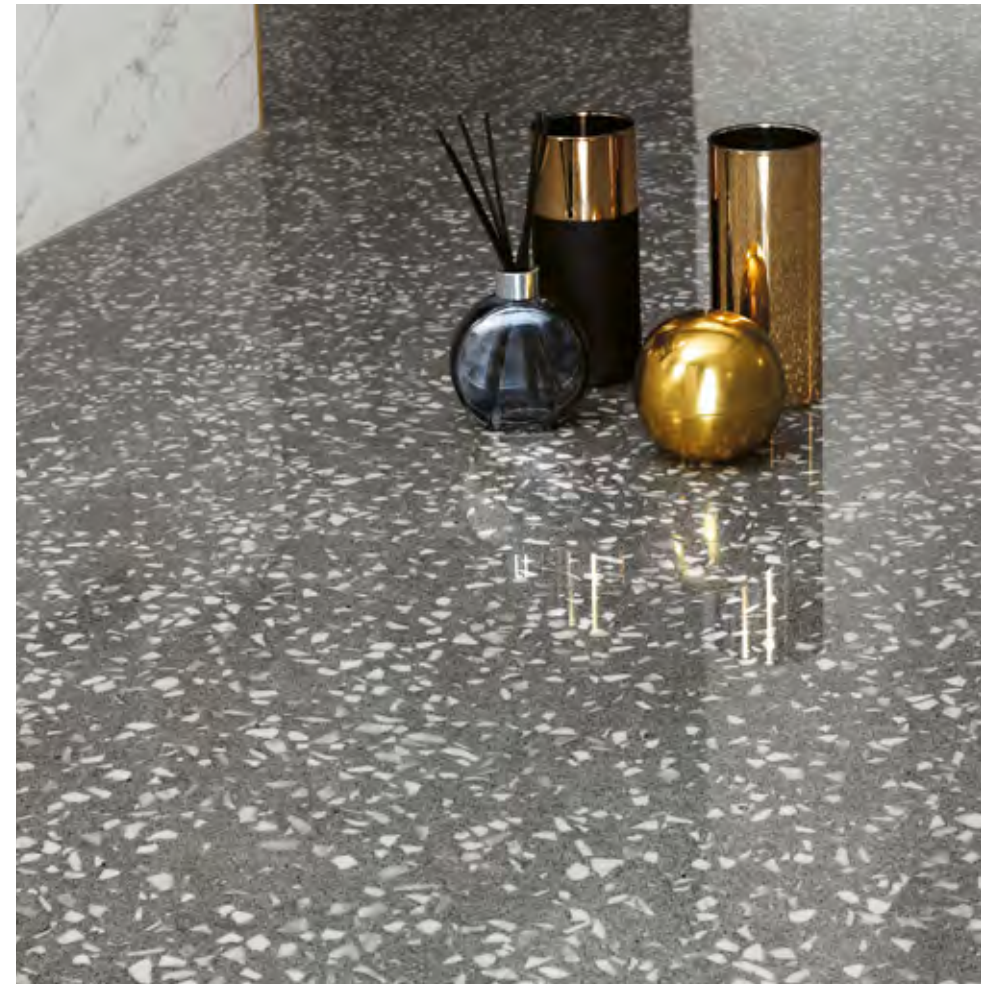
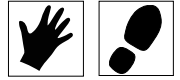
GEMSTONES TERRAZZO GREY LAPPATO
60/60
[SPECIAL ORDER](#)



GEMSTONES TERRAZZO GREY MATT
60/60
[SPECIAL ORDER](#)

TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE
THICKNESS: 10MM
SHADING: V2 MODERATE
SLIP RESISTANCE: MATT R10



THE SURFACE WITHIN™

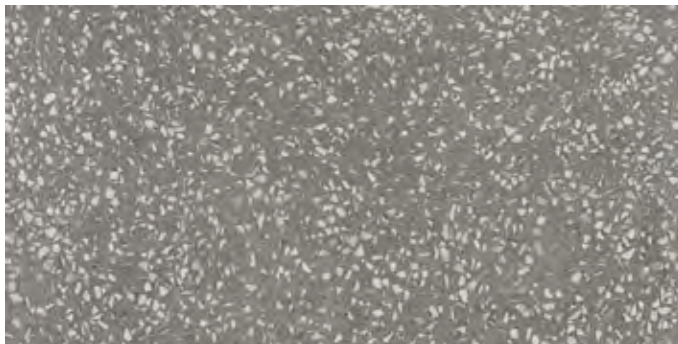
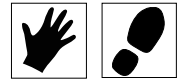
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GEMSTONES TERRAZZO GREY

minoli

TECHNICAL CHARACTERISTICS:

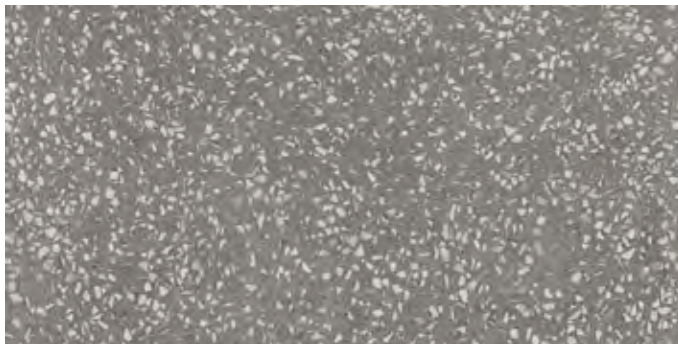
RECTIFIED PORCELAIN STONEWARE
THICKNESS: 10MM
SHADING: V2 MODERATE
SLIP RESISTANCE: MATT R10



GEMSTONES TERRAZZO GREY LAPPATO

45/90

[SPECIAL ORDER](#)



GEMSTONES TERRAZZO GREY MATT

45/90

[SPECIAL ORDER](#)



GEMSTONES ESAGONO OPTICAL
COLD LAPPATO MOSAICO
30.5/26.3

[SPECIAL ORDER](#)

(WHITE + GREY + BLACK)



THE SURFACE WITHIN™

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GEMSTONES TERRAZZO GREY

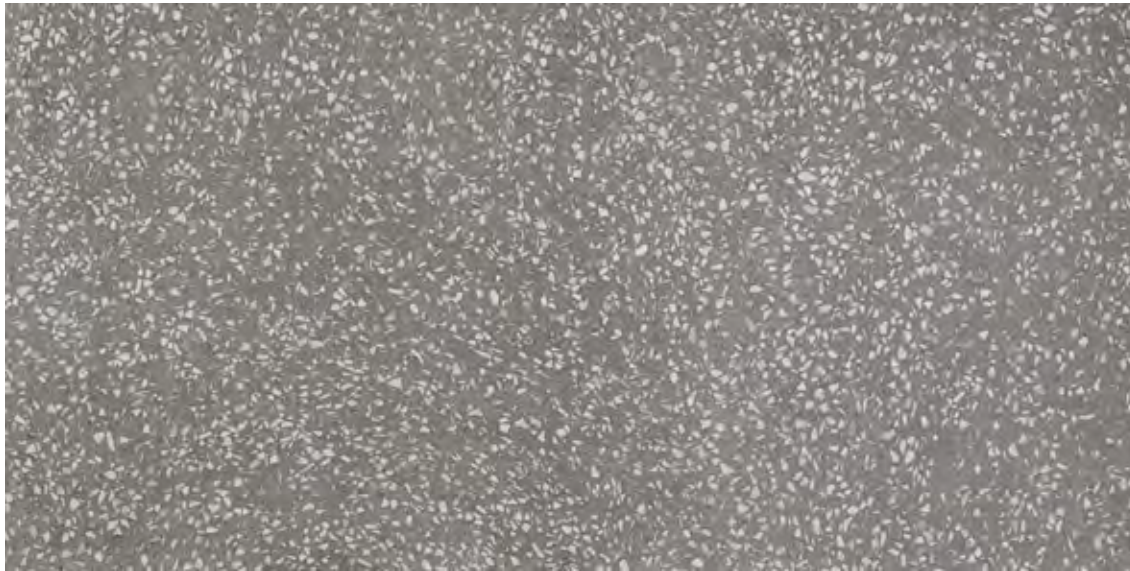
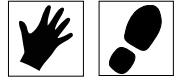


TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE

THICKNESS: 10MM

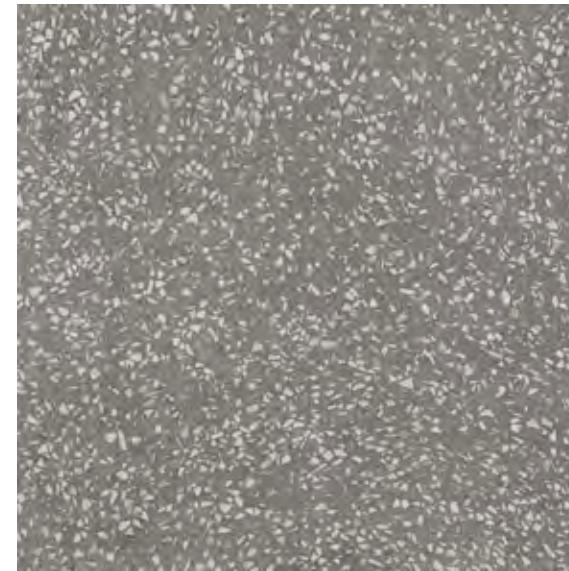
SHADING: V2 MODERATE



GEMSTONES TERRAZZO GREY LAPPATO

75/150

[SPECIAL ORDER](#)



GEMSTONES TERRAZZO GREY LAPPATO

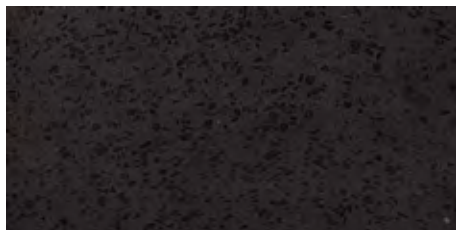
75/75

[SPECIAL ORDER](#)

THE SURFACE WITHIN™

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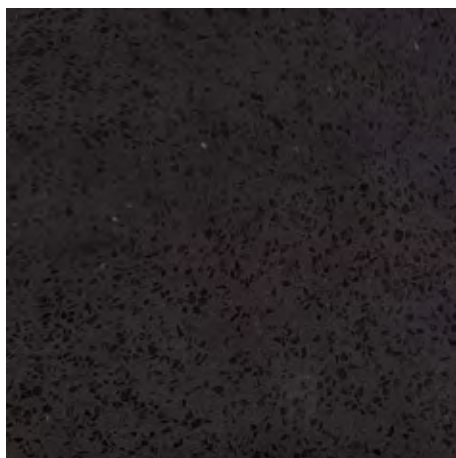
GEMSTONES TERRAZZO BLACK



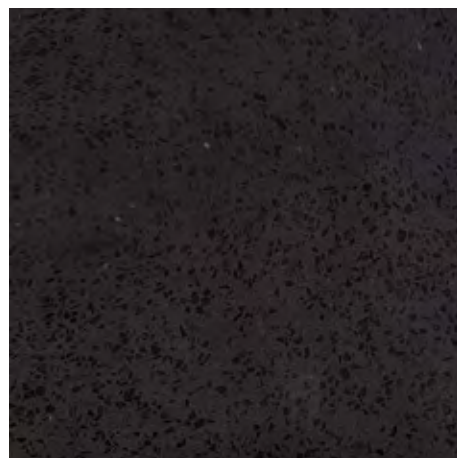
GEMSTONES TERRAZZO BLACK LAPPATO
30/60
SPECIAL ORDER



GEMSTONES TERRAZZO BLACK LAPPATO MOSAICO
30/30
SPECIAL ORDER



GEMSTONES TERRAZZO BLACK LAPPATO
60/60
SPECIAL ORDER



GEMSTONES TERRAZZO BLACK MATT
60/60
SPECIAL ORDER

TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE
THICKNESS: 10MM
SHADING: V2 MODERATE
SLIP RESISTANCE: MATT R10



THE SURFACE WITHIN™

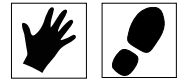
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GEMSTONES TERRAZZO BLACK



TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE
THICKNESS: 10MM
SHADING: V2 MODERATE
SLIP RESISTANCE: MATT R10



GEMSTONES TERRAZZO BLACK LAPPATO
45/90
[SPECIAL ORDER](#)



GEMSTONES TERRAZZO BLACK MATT
45/90
[SPECIAL ORDER](#)



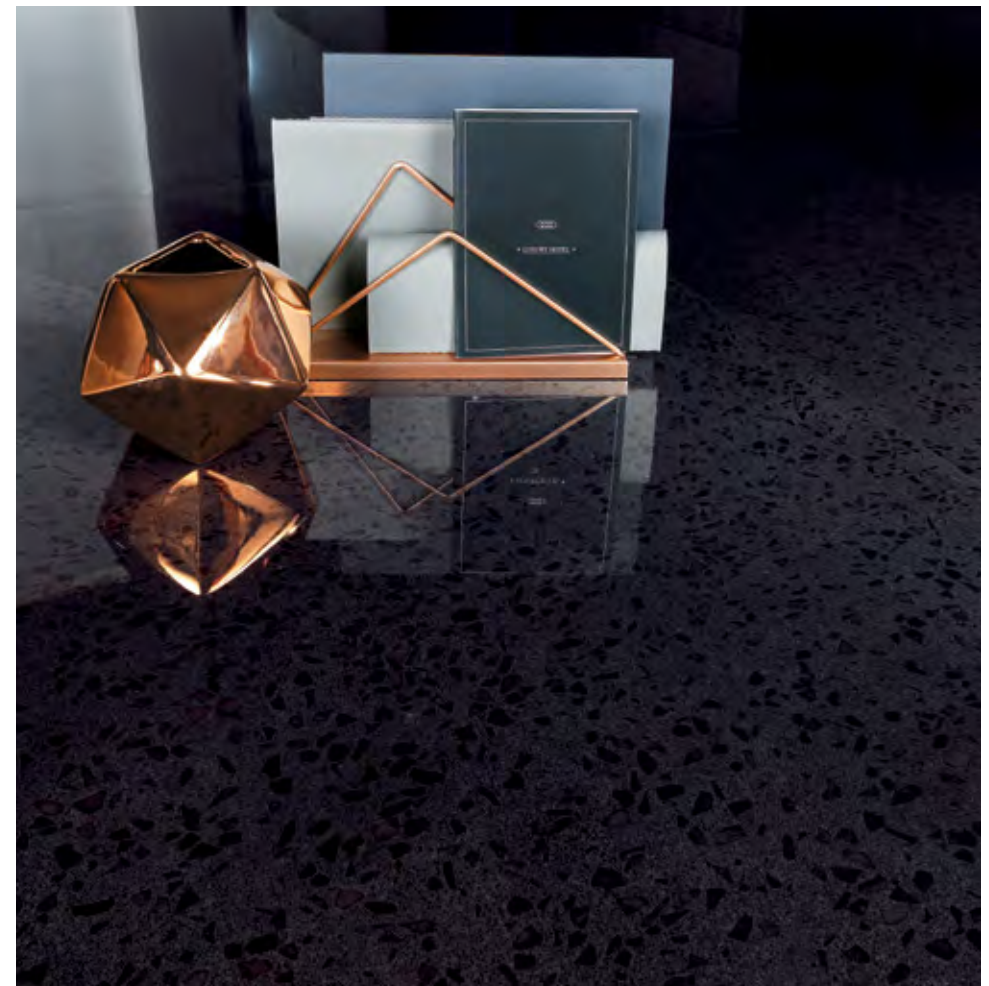
GEMSTONES ESAGONO OPTICAL
COLD LAPPATO MOSAICO
30.5/26.3
[SPECIAL ORDER](#)

(WHITE + GREY + BLACK)



GEMSTONES HALF HEX LAPPATO MOSAICO
33/48.3
[SPECIAL ORDER](#)

(CREAM + BLACK)



THE SURFACE WITHIN™

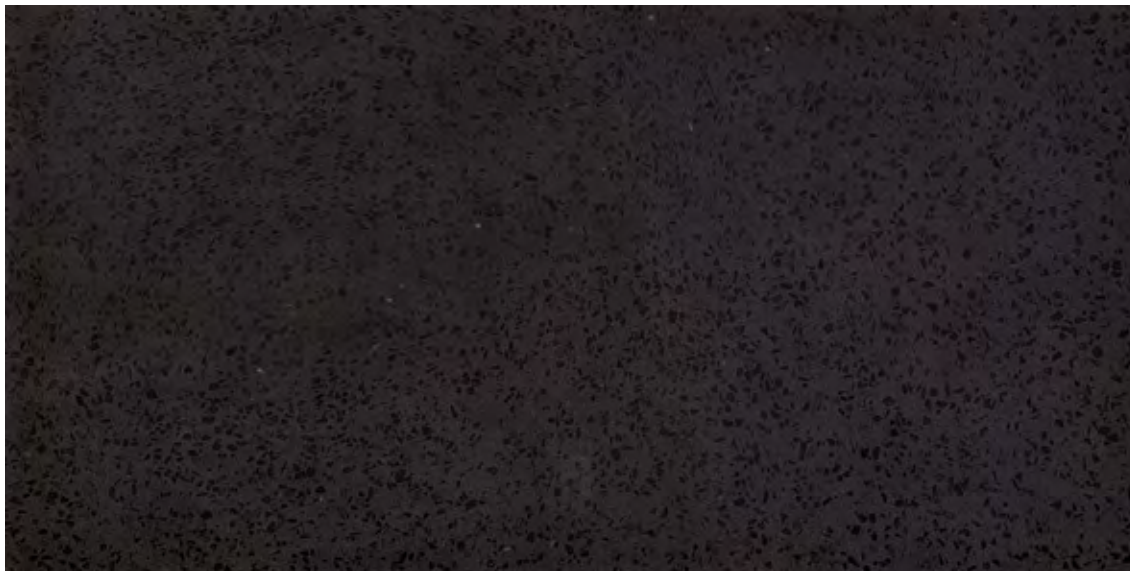
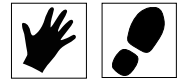
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GEMSTONES TERRAZZO BLACK



TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE
THICKNESS: 10MM
SHADING: V2 MODERATE



GEMSTONES TERRAZZO BLACK LAPPATO
75/150
[SPECIAL ORDER](#)



GEMSTONES TERRAZZO BLACK LAPPATO
75/75
[SPECIAL ORDER](#)

THE SURFACE WITHIN™

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GEMSTONES TERRAZZO CREAM



GEMSTONES TERRAZZO CREAM LAPPATO
30/60
[SPECIAL ORDER](#)



GEMSTONES TERRAZZO CREAM LAPPATO MOSAICO
30/30
[SPECIAL ORDER](#)



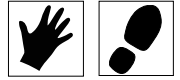
GEMSTONES TERRAZZO CREAM LAPPATO
60/60
[SPECIAL ORDER](#)



GEMSTONES TERRAZZO CREAM MATT
60/60
[SPECIAL ORDER](#)

TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE
THICKNESS: 10MM
SHADING: V2 MODERATE
SLIP RESISTANCE: MATT R10



THE SURFACE WITHIN™

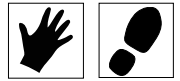
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GEMSTONES TERRAZZO CREAM

minoli

TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE
THICKNESS: 10MM
SHADING: V2 MODERATE
SLIP RESISTANCE: MATT R10



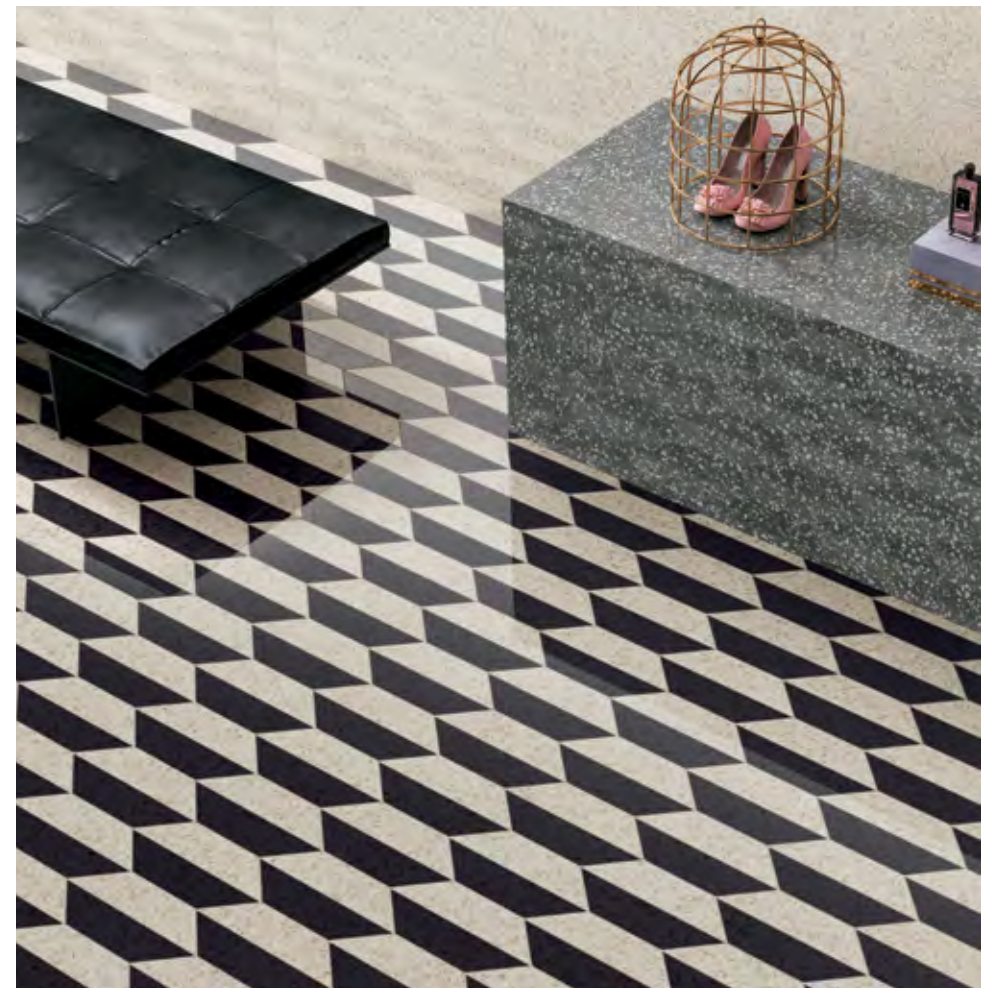
GEMSTONES TERRAZZO CREAM LAPPATO
45/90
[SPECIAL ORDER](#)



GEMSTONES TERRAZZO CREAM MATT
45/90
[SPECIAL ORDER](#)



GEMSTONES HALF HEX LAPPATO MOSAICO
33/48.3
[SPECIAL ORDER](#)
(CREAM + BLACK)



THE SURFACE WITHIN™

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GEMSTONES TERRAZZO CREAM

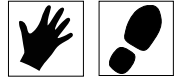


TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE

THICKNESS: 10MM

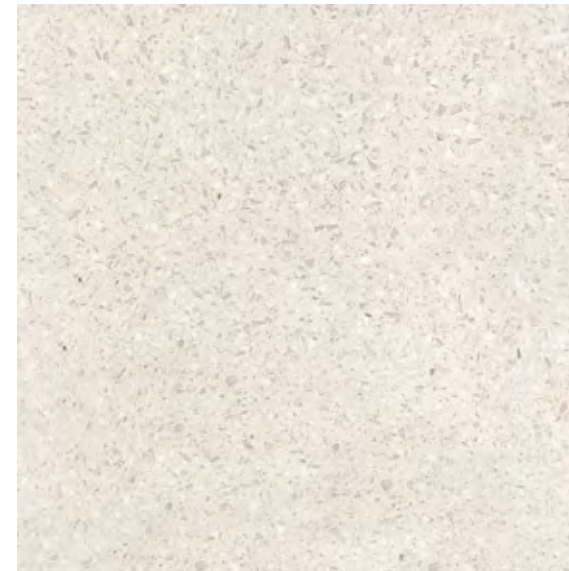
SHADING: V2 MODERATE



GEMSTONES TERRAZZO CREAM LAPPATO

75/150

[SPECIAL ORDER](#)



GEMSTONES TERRAZZO CREAM LAPPATO

75/75

[SPECIAL ORDER](#)

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GEMSTONES PALLADIANA CARRARA

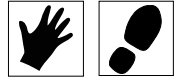
minoli

TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE

THICKNESS: 10MM

SHADING: V2 MODERATE



GEMSTONES PALLADIANA CARRARA LAPPATO

30/60

[SPECIAL ORDER](#)



GEMSTONES PALLADIANA CARRARA LAPPATO

60/60

[SPECIAL ORDER](#)



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GEMSTONES PALLADIANA CARRARA

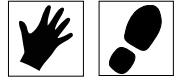
minoli

TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE

THICKNESS: 10MM

SHADING: V2 MODERATE



GEMSTONES PALLADIANA CARRARA LAPPATO

75/150

[SPECIAL ORDER](#)



THE SURFACE WITHIN™

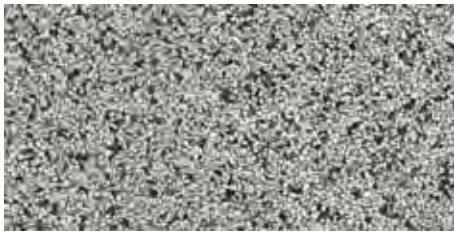
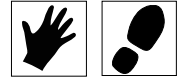
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GEMSTONES TERRAZZO COLD MIX

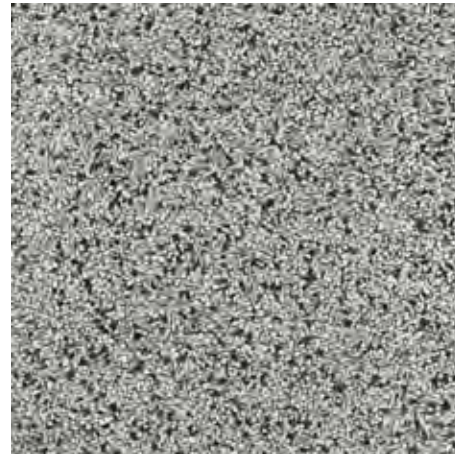
minoli

TECHNICAL CHARACTERISTICS:

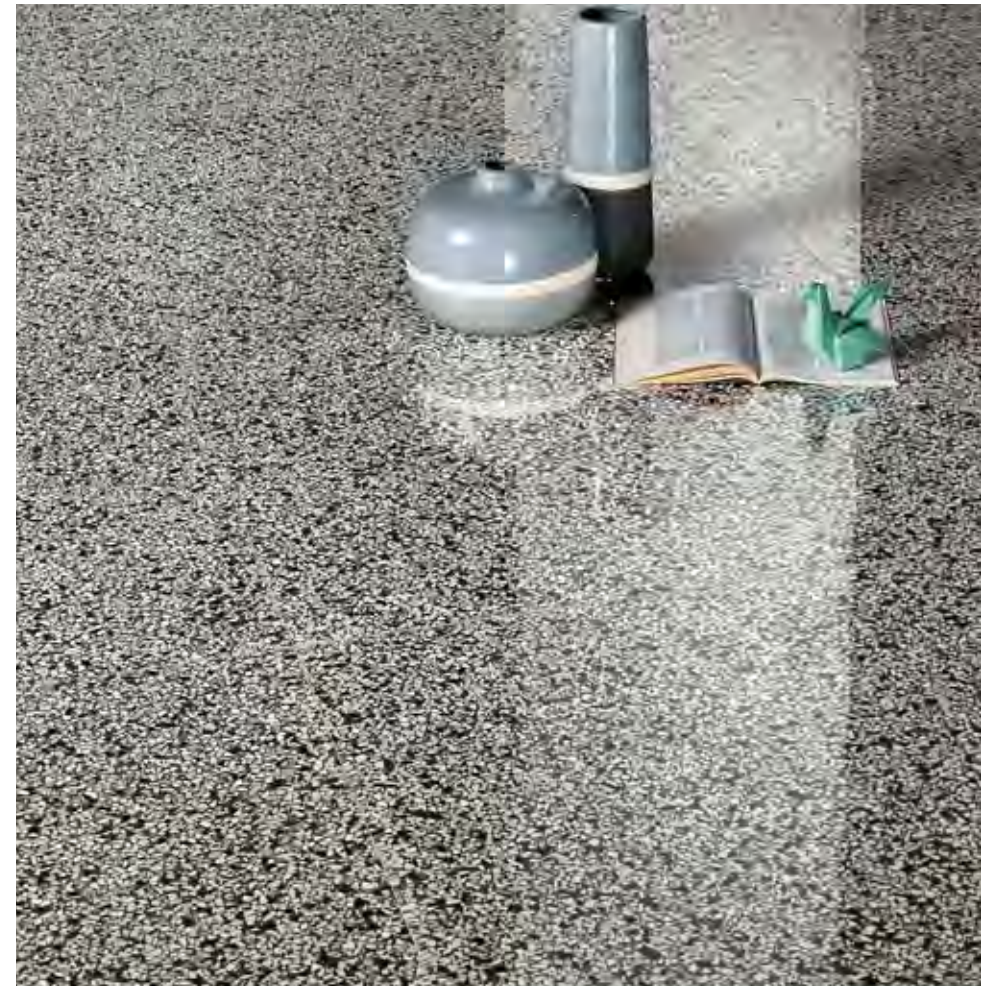
RECTIFIED PORCELAIN STONEWARE
THICKNESS: 10MM
SHADING: V2 MODERATE



GEMSTONES TERRAZZO COLD MIX LAPPATO
30/60
[SPECIAL ORDER](#)



GEMSTONES TERRAZZO COLD MIX LAPPATO
60/60
[SPECIAL ORDER](#)



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GEMSTONES TERRAZZO COLD MIX

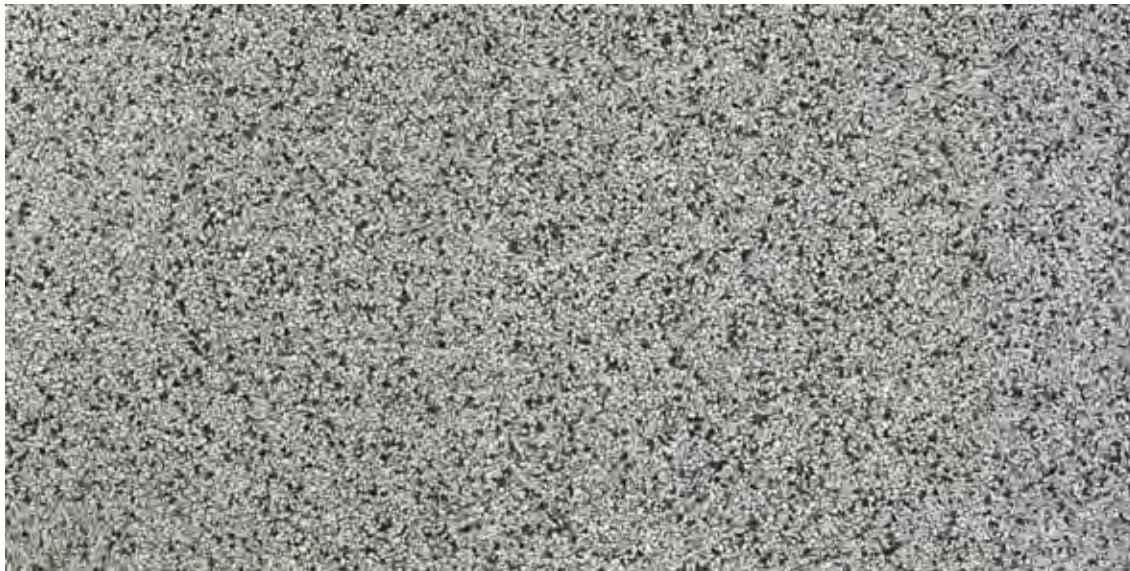
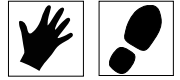
minoli

TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE

THICKNESS: 10MM

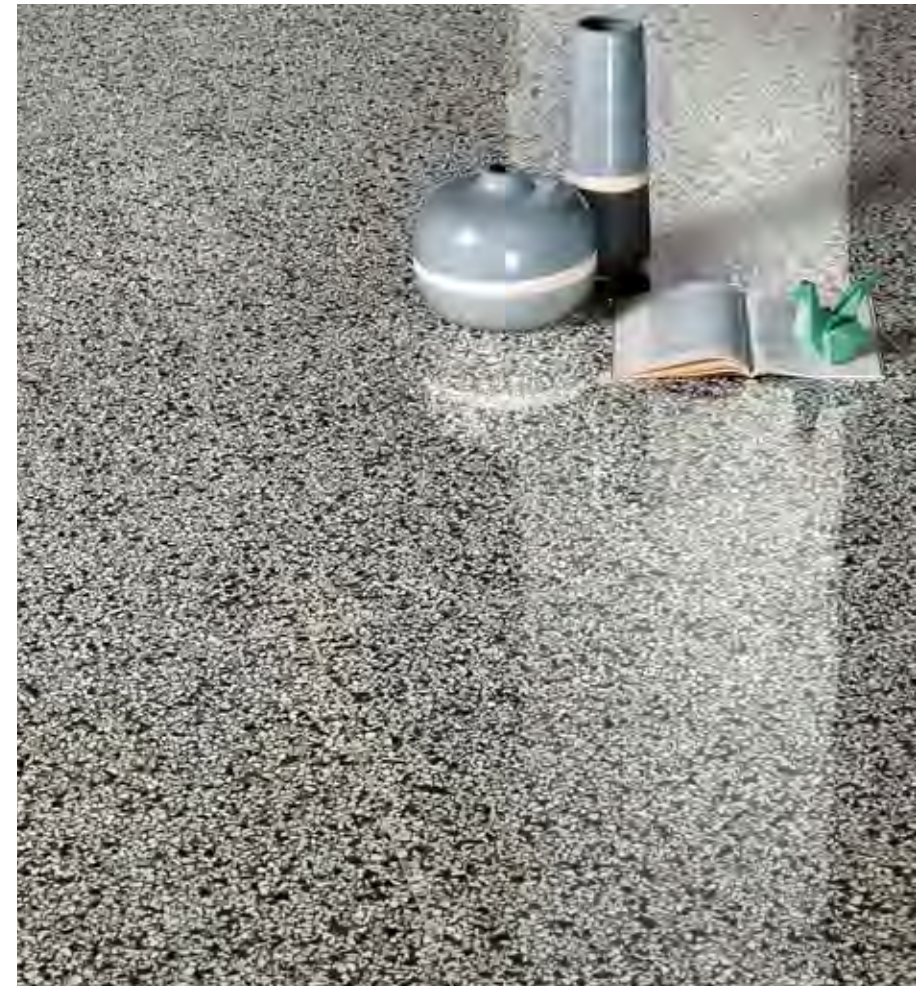
SHADING: V2 MODERATE



GEMSTONES TERRAZZO COLD MIX LAPPATO

75/150

[SPECIAL ORDER](#)



THE SURFACE WITHIN™

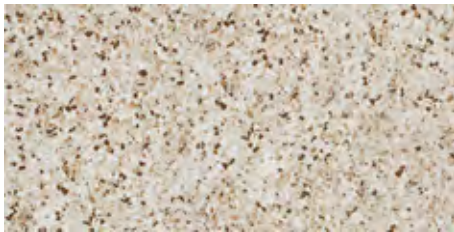
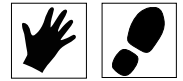
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GEMSTONES TERRAZZO WARM MIX



TECHNICAL CHARACTERISTICS:

RECTIFIED PORCELAIN STONEWARE
THICKNESS: 10MM
SHADING: V2 MODERATE
SPECIAL ORDER



GEMSTONES TERRAZZO WARM MIX LAPPATO
30/60
[SPECIAL ORDER](#)



GEMSTONES TERRAZZO WARM MIX LAPPATO
60/60
[SPECIAL ORDER](#)



GEMSTONES TERRAZZO WARM MIX LAPPATO
75/150
[SPECIAL ORDER](#)

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GEMSTONES TECHNICAL



THE PRODUCTS WITHIN THE MINOLI 'MARVEL GEMSTONES' RANGE HAVE A DEGREE OF SHADE VARIATION FROM TILE TO TILE, CHARACTERISED BY A LIGHT TO MODERATE FINISH TO THE SURFACE.

MODERATE V2

LIGHT V1 MODERATE V2 HIGH V3 RANDOM V4

MARVEL GEMS Floor



COLOURED BODY PORCELAIN TILES - RECTIFIED MONOCALIBER
 COLOURED BODY PORCELAIN TILES - RECTIFIED MONOCALIBER
 Conforme alla norma EN 14411 (ISO 13006) Appendice G gruppo IIIa
 Conforme alla norma EN 14411 (ISO 13006) Appendice G gruppo IIIa

TECHNICAL FEATURES / TECHNICAL FEATURES		Requisiti per il Dimensionamento di			MARVEL GEMS FLOOR		
		L x W x T (mm)			Homod	Heter	
Regularity features	Length and width Length and width	ISO 10545-2	+ 0,5 (*)	+ 0,5 (*)	+ 2,0 (*)	+0,3% ± 0,8mm	+0,3% ± 0,8mm
	Thickness Thickness		+ 0,5 (**)	+ 0,5 (**)	+ 0,5 (**)	+0,0% ±0,5mm	+0,0% ±0,5mm
	Straightness of sides Straightness of sides		+ 0,5 (**)	+ 0,5 (**)	+ 0,5 (**)	+0,0% ±0,8mm	+0,0% ±0,8mm
	Orthogonality (distorsione da cubatura solo sui lati corti) spessore ± 0,5 % Ortogonalità (distorsione da cubatura solo sui lati corti quando è L x S)		+ 0,5 (**)	+ 0,5 (**)	+ 0,5 (**)	+0,0% ± 0,5mm	+0,0% ± 0,5mm
	Surface flatness Surface flatness		c.c. ± 0,75 c.c. ± 0,75 m ± 0,75	c.c. ± 0,5 c.c. ± 0,5 m ± 0,5	c.c. ± 2,0 c.c. ± 2,0 m ± 2,0	+0,0% ± 0,5mm	+0,4% ± 1,8mm
Structural features	Water absorption level Water absorption level	ISO 10545-3	EN+ 0,5% Individual max 0,6% (tra 0,34 mm max single 0,3%)			±0,1%	±0,1%
Bulk mechanical features	Breaking strength Breaking strength	ISO 10545-4	S ≥ 1300 N			S ≥ 1300 N	S ≥ 2000 N
	Modulus of Rupture Modulus of Rupture		R ≥ 33 N/mm ²			R ≥ 40 N/mm ²	R ≥ 40 N/mm ²
	Resistance to impact, expressed as coefficient of resistance Resistance to impact, expressed as coefficient of resistance		ISO 10545-5	Declare a value	Metodo di prova disponibile	±0,55	±0,55
Surface mechanical features	Wife hardness Wife hardness	EN 101 (1)	S ≥ 1300 N			MCH6	MCH6
	Resistance to abrasion (profonda delle piastrelle non smaltate) (prova materiale apporitato) Resistance to abrasion (profonda delle piastrelle non smaltate) (prova materiale apporitato)	ISO 10545-6	≤ 175 mm ³			±130mm ³	±130mm ³
Thermo-igrometric features	Linear Thermal Expansion Coefficient Linear Thermal Expansion Coefficient	ISO 10545-8	Declare a value	Metodo di prova disponibile	±7 1/mK	±7 1/mK	
	Thermal shock resistance Thermal shock resistance	ISO 10545-9	Test superato in accordo con ISO 10545-9	Metodo di prova disponibile	Resiste	Resiste	
	Expansion due to humidity (moist) Expansion due to humidity (moist)	ISO 10545-10	Declare a value	Metodo di prova disponibile	±0,07% (2 1/mK/24h)	±0,07% (2 1/mK/24h)	
	Frost resistance Frost resistance	ISO 10545-12	Test superato in accordo con ISO 10545-12	Metodo di prova richiesto	Resiste	Resiste	
Physical properties	Bond Strength Bond Strength	EN 1388	Declare a value		≥1,0 N/mm ² (Class C2 - EN 12004)	≥1,0 N/mm ² (Class C2 - EN 12004)	
	Reaction to fire Reaction to fire	-	Class A1 or A1-B		A1 - A1 _g	A1 - A1 _g	
Chemical features	Resistance to household chemicals and swimming pool salts Resistance to household chemicals and swimming pool salts	ISO 10545-13	Classe minima B (2) per piastrelle non smaltate)			UR	UR
	Resistance to low concentrations of acids and alkalis Resistance to low concentrations of acids and alkalis		Declare a class	Secondo la classificazione indicata dal fabbricante	USA	USA	
	Resistance to high concentrations of acids and alkalis Resistance to high concentrations of acids and alkalis		Declare a class	Metodo di prova disponibile	0	LPA	
	Stain resistance Stain resistance		ISO 10545-14	Declare a class	Metodo di prova disponibile	UR	UR
Safety features	Slippery When Wet Slippery When Wet	EN 13034	Classific. a rischio		Classific. a rischio	Classific. a rischio	
	Small Ramp Test Small Ramp Test	EN 13034	Classific. a rischio		Classific. a rischio	Classific. a rischio	
	Pendulum Friction Test Pendulum Friction Test	EN 13034	Classific. a rischio		Classific. a rischio	Classific. a rischio	
Safety features	Dynamic Coefficient of Friction Dynamic Coefficient of Friction	ANSI A137.1-2012	ANSI A137.1 Requires a minimum value of 0,42 for commercial areas that are likely to be wet.		≥0,42min	≥0,42min	
	Static Coefficient of Friction Static Coefficient of Friction	ASTM C1028-2007	The Ceramic Tiles Institute identifies Tile Slip Resistant when SCOF ≥ 1,00		≥0,020Fr 0,550-0,600Fr	≥0,020Fr 0,550-0,600Fr	
	Pendulum Friction Test Pendulum Friction Test	AS/NZS 4586-2013	Declared Classification of the pedestrian surface materials according to the Wet Pendulum Test		ClassP0	ClassP2	

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