



Elmina

THE BOLD PLETHORA



Elmina

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Elmina is the porcelain tile series enthused by gold limestone originally used by Spanish and Portuguese conquerors in their construction of castles and fortresses all across the Atlantic Coast of Africa. Mottles of orange and yellow add brilliance while tonal veins of ivory and gold soothing tones add feature to the gold limestone inspired design of Elmina.

Dubbed after the oldest fortress of the Atlantic Coast, the comfortable yet regal opulence of Elmina is the perfect fit for any space which needs the temperate charm of its soothing tones.

Elmina by Niro Granite consists of 4 bold tones with formats of 30x60cm, 60x60cm and 60x120cm. The structured and lappato surfaces allow for a smooth continuity in both internal and external environments. Embolden your surrounding space with specks of gold to the bold plethora of Elmina.

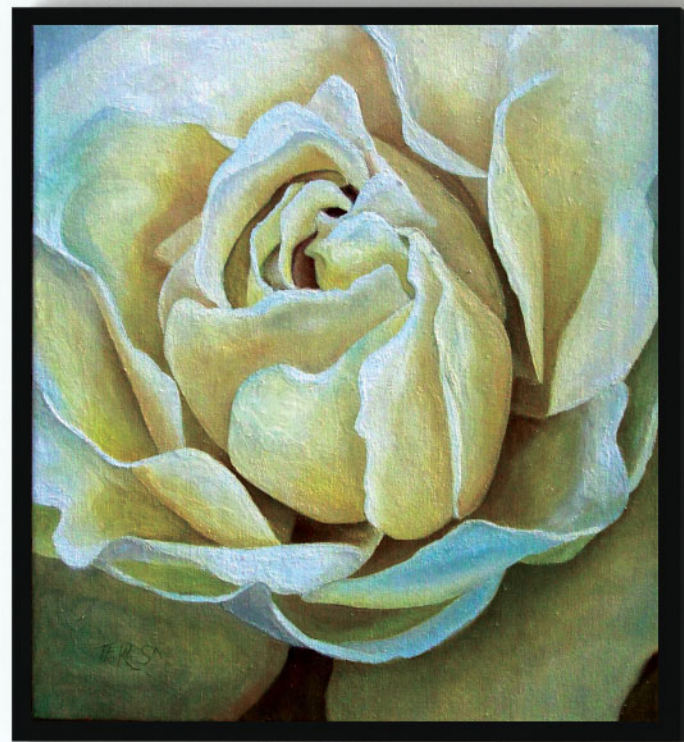
The image shows a collection of four different tile samples arranged in a fan-like pattern. The top-left tile is a light beige color with a subtle, wavy pattern. The bottom-left tile is a light grey color with a fine, pebbled texture. The middle-right tile is a dark grey color with a coarse, pebbled texture. The top-right tile is a dark brown color with a coarse, pebbled texture and some reddish-brown veins. The background is a plain white surface.

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4 colours
GEL01 Fuji White
GEL02 Sierra Beige
GEL03 Yukon Grey
GEL04 Rocky Grey

2 surfaces
Lappato
Structured

3 sizes
60x120cm
60x60cm
30x60cm*
* only for structured surface



FLOOR: Fuji White 120x60cm Lappato / WALL: Fuji White Illustration 60x60cm Lappato / GEL01

FUJI WHITE GEL01

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THE BOLD PLETHORA





FUJI WHITE 120x60

GEL01



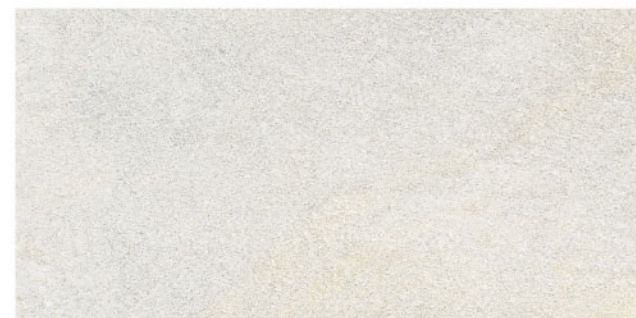
FUJI WHITE 60x60

GEL01



ILLUSTRATION 60x60*
* only for lappato surface

GEL01



FUJI WHITE 60x30*
* only for structured surface

GEL01

FUJI WHITE

GEL01

Be enthralled by the venerable and revered Fuji White that will highlight the splendiddness of your living space, whether for work or play.

SURFACE AVAILABLE

Lappato
Structured

Elmina
THE BOLD PLETHORA



FLOOR: Fuji White 120x60cm Structured + Illustration 60x60cm Lappato / WALL: Fuji White 60x30cm Structured / GEL01



SIERRA BEIGE GEL02

Elmina
THE BOLD DILETTANTE



FLOOR: Sierra Beige 120x60cm Structured + Illustration 60x60cm Lappato / GEL02



SIERRA BEIGE 120x60

GEL02



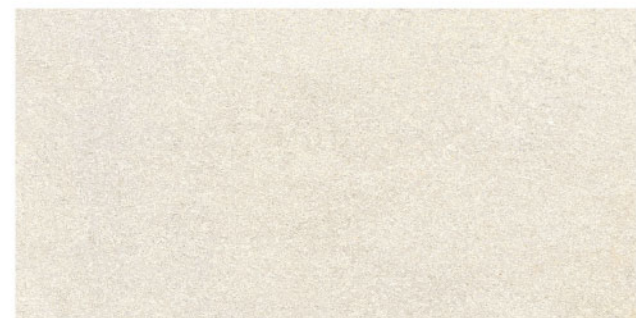
SIERRA BEIGE 60x60

GEL02



ILLUSTRATION 60x60*
** only for lappato surface*

GEL02



SIERRA BEIGE 60x30*
** only for structured surface*

GEL02

SIERRA BEIGE

GEL02

Empower the eminence of Sierra Beige to reveal gratification and sovereignty in any sanctuary that you desire.

SURFACE AVAILABLE

Lappato
Structured

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THE BOLD PLETHORA



FLOOR: Sierra Beige 120x60cm Lappato / GEL02



FLOOR: Yukon Grey 120x60cm Lappato + Illustration 60x60cm Lappato / GEL03

YUKON GREY GEL03

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THE BOLD DLETHORA





YUKON GREY 120x60

GEL03



YUKON GREY 60x60

GEL03



ILLUSTRATION 60x60*
** only for lappato surface*

GEL03



YUKON GREY 60x30*
** only for structured surface*

GEL03

YUKON GREY

GEL03

The magnificence of the pristine yet wild Yukon Grey embraces the lush fundamentals for that absolute impeccable ardour.

SURFACE AVAILABLE

Lappato
Structured

Elmina
THE BOLD PLETHORA



FLOOR: Yukon Grey 120x60cm Structured / GEL03

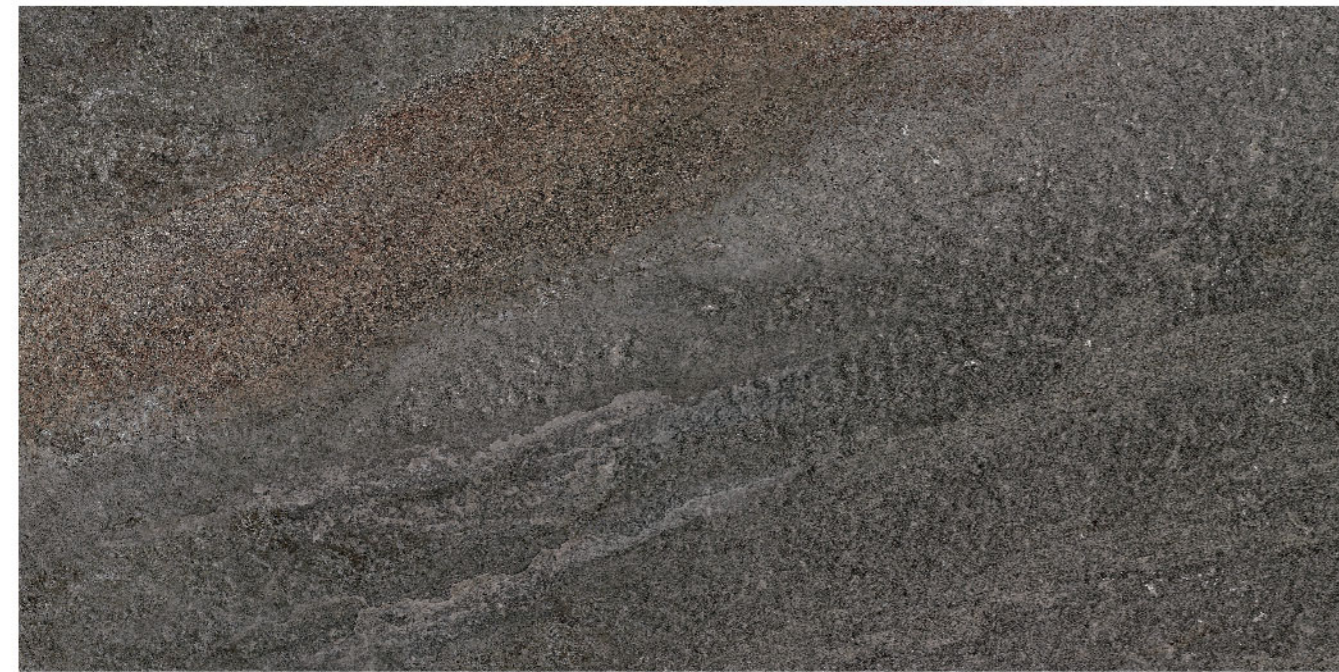


FLOOR: Rocky Grey 60x60cm Lappato / WALL: Rocky Grey 120x60cm Lappato / GEL04

 **ROCKY GREY** GEL04

Elmina
THE BOLD PLETHORA





ROCKY GREY 120x60

GEL04



ROCKY GREY 60x60

GEL04



ILLUSTRATION 60x60*
* only for lappato surface

GEL04



ROCKY GREY 60x30*

* only for structured surface

GEL04

ROCKY GREY

GEL04

Rocky Grey is the sturdy and valiant charmer that will affirm the tenacious gallantry of any humble abode.

SURFACE AVAILABLE

Lappato
Structured

Elmina
THE BOLD PLETHORA



FLOOR: Rocky Grey 120x60cm Structured / WALL: Rocky Grey 60x30cm Structured + Illustration 60x60cm Lappato / GEL04



TECHNICAL SPECIFICATIONS

DESCRIPTION	STANDARD TEST	MEASUREMENT UNIT	ISO STANDARD REQUIREMENT	NIRO GRANITE
Length & Width	ISO 10545 -2	mm	±0.6% Max	±0.30% Max
Thickness	ISO 10545 -2	mm	±5.0% Max	±5.0% Max
Sides Straightness	ISO 10545 -2	mm	±0.5% Max	±0.25% Max
Rectangularity	ISO 10545 -2	mm	±0.5% Max	±0.25% Max
Flatness: a) Centre Curvature	ISO 10545 -2	mm	±0.5% Max	±0.20% Max / Max 2.0mm
b) Edge Curvature	ISO 10545 -2	mm	±0.5% Max	±0.20% Max / Max 2.0mm
c) Warpage	ISO 10545 -2	mm	±0.5% Max	±0.20% Max / Max 2.0mm
Surface Quality	ISO 10545 -2	One Major Area of Tiles	≥ 95% free from visible defect	Comply
Water Absorption	ISO 10545 -3	Mass	≤0.5%	≤0.20%
Breaking Strength	ISO 10545 -4	N	≥ 1300 N	≥ 1300 N
Modulus of Rupture	ISO 10545 -4	N/mm2	≥ 35 N/mm2 Individual ≥ 32 N/mm2	≥ 35 N/mm2 Individual ≥ 32 N/mm2
Abrasion Resistance				
a) Deep Abrasion for unglazed tiles	ISO 10545 -6	mm3	≤ 175 mm3	≤ 160 mm3
b) Surfaces Abrasion for glazed tiles	ISO 10545 -7	Visual Check	Manuf. to state abrasion class, cycle and passed	≥ PEI 3 (Dependent on product type)*
Crazing Test (glazed tiles)	ISO 10545 -11	Visual Check	No Sign of Crazing	No Sign of Crazing
Frost Resistance	ISO 10545 -12	Visual Check	Required	No Visible Crack
Chemical Resistance				
a) Low concentrations	ISO 10545 -13	Visual Check	Manuf. To State	Class A Class B (For Polished Tile)
b) Household chemicals and swimming pool salts	ISO 10545 -13	Visual Check	≥ Class B	Class A Class B (For Polished Tile)
Stain Resistance				
a) For unglazed tiles	ISO 10545 -14	Visual Check	Manuf. to State	≥ Class 3
b) For glazed tiles	ISO 10545 -14	Visual Check	≥ Class 3	≥ Class 3
Slip Resistance (Excluding Polished, Lappato and Matt Satin finishing)	AS/NZS 4586 App. A	P0 to P5	Manuf. to State	Wet Pendulum ≥ P2 (Dependent on product type)*

The technical specifications is only for rectified tiles. * Refer to test report for specific test result.

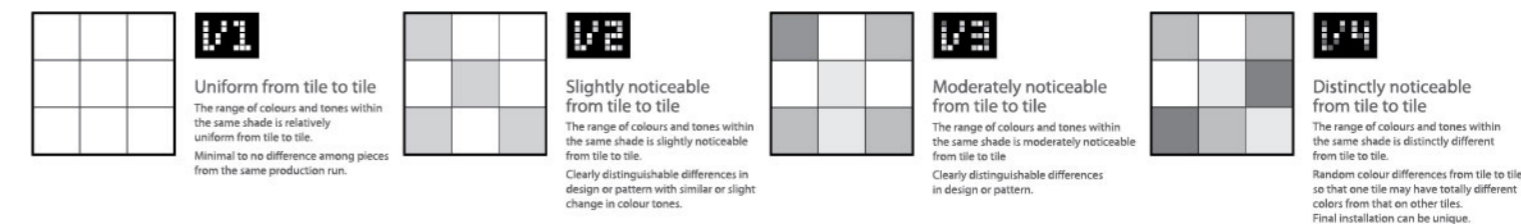
Each different tiles series are produced to meet different performance requirements. For specific product technical performance, please request from Niro Granite sales team or their agent or distributor.

Colour Variations: Since the colour reproduction in this printed piece will vary from the actual tile colours, final selection should be made from tile samples. Colour, shade and glaze variations may exist due to the inherent characteristics of porcelain tile.



Due to the low porosity of porcelain tiles, an Improved High Performance Cementitious adhesive in accordance to BS EN 12004 & ISO 13007-1 is highly recommended for proper installation. Products that meet this standard are available amongst leading adhesive manufacturers. Please seek expert advice from adhesive manufacturers for proper selection and application.

SHADE AND TONALITIES





PASSIONATE ABOUT LIFE



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