

MARRAKESH

porcelain stoneware



COBSA USA
NEW YORK | NEW JERSEY | MIAMI



marrakesh
ALOE

BEPMAAL44



- 4x4 -

BEPMAALBN



- 1.5x4 jolly -



marrakesh
ARCTIC

BEPMAAR44



- 4x4 -

BEPMAARBN



- 1.5x4 jolly -

marrakesh
BLACK



BEPMABK44



- 4x4 -

BEPMABKBN

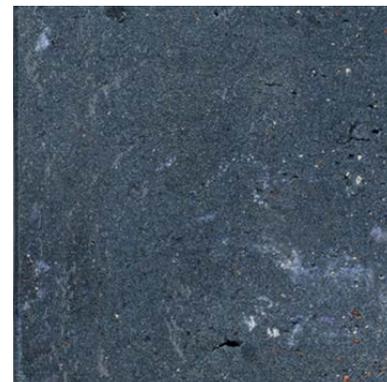


- 1.5x4 jolly -

marrakesh
BLUE



BEPMABL44



- 4x4 -

BEPMABLBN



- 1.5x4 jolly -



marrakesh
BREEZE

BEPMABR44



- 4x4 -

BEPMABRBN



- 1.5x4 jolly -



marrakesh
CLAY

BEPMACL44



- 4x4 -

BEPMACLBN



- 1.5x4 jolly -



marrakesh
FOREST

BEPMAFO44

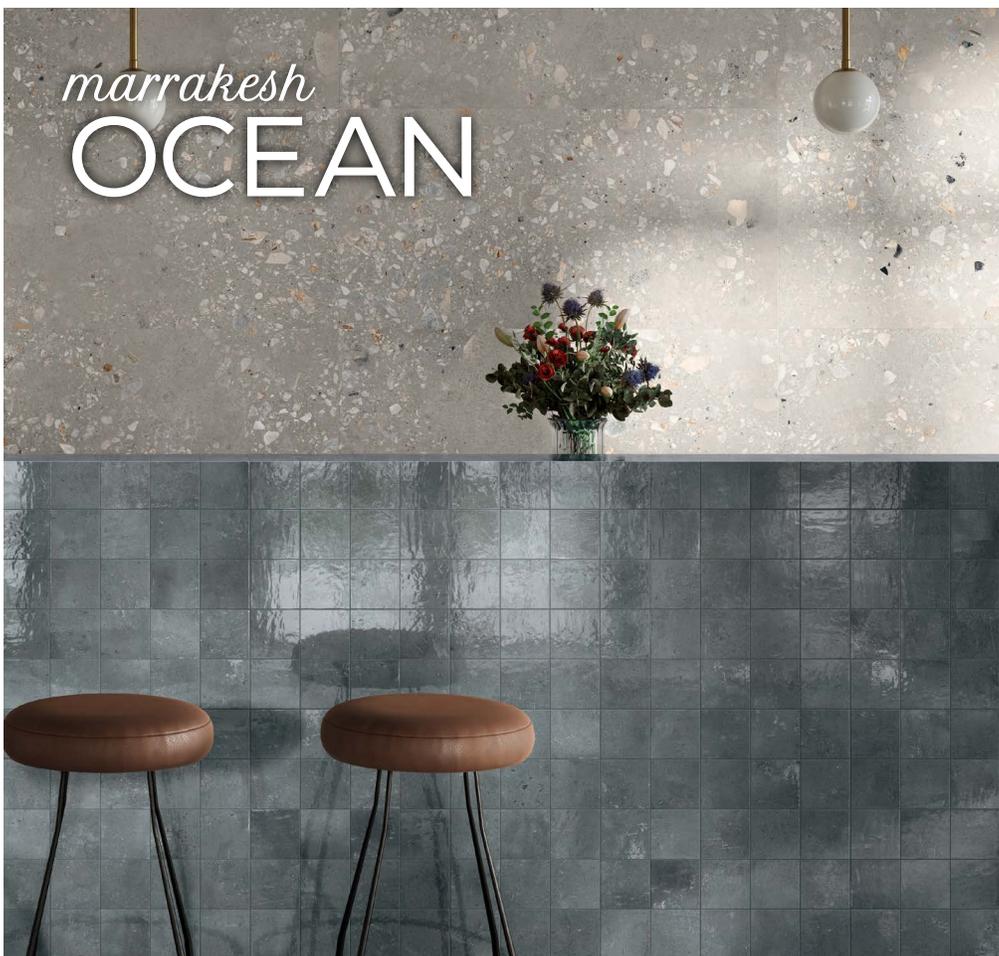


- 4x4 -

BEPMAFOBN



- 1.5x4 jolly -



marrakesh
OCEAN

BEPMAOC44



- 4x4 -

BEPMAOCBN



- 1.5x4 jolly -

marrakesh
SIENNA



BEPMASI44



- 4x4 -

BEPMASIBN

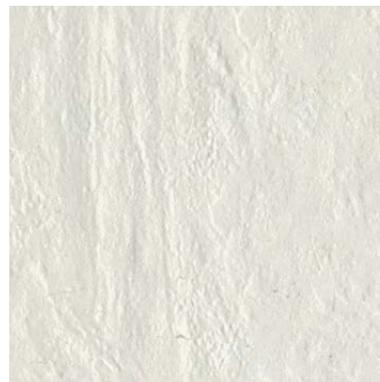


- 1.5x4 jolly -

marrakesh
WHITE



BEPMAWH44



- 4x4 -

BEPMAWHBN



- 1.5x4 jolly -

marrakesh
**COLOR
VARIATIONS**



WHITE



CLAY



SIENNA



BLACK



BREEZE



ALOE



FOREST



ARCTIC



OCEAN

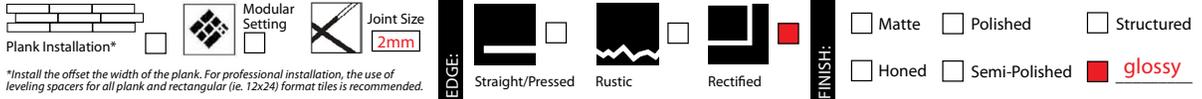


BLUE

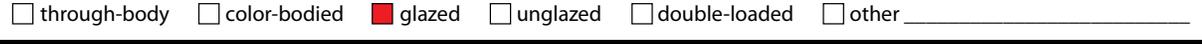
Suggested Applications



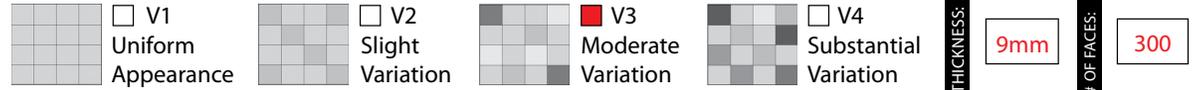
Installation Suggestions



Porcelain Type



Shade Variation



Slip Resistance

DCOF	Values	Applications
	0.42	Recommended Standard DCOF value for wet/dry commercial flooring
	0.65	Recommended Standard DCOF value for ADA ramps

DIN 51130 *R9: Industry Standard/ADA Requirements **R11: Recommended For Exteriors

R9* (3-10°) R10 (10-19°) R11** (19-27°)
 R12 (27-35°) R13 (>35°)

ASTM C-1028
ANSI A137.1
DIN 51097/51130

DIN 51097

Class	Typical Applications	Critical Angle
<input checked="" type="checkbox"/> A	Barefoot, but mainly dry aisles and walkways, dry changing areas	≥12°
<input type="checkbox"/> B	Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas)	≥18°
<input type="checkbox"/> C	Areas constantly under water, e.g. steps into pools, foot baths, included pool surrounds, jacuzzis (plus all Class A&B areas)	≥24°

Scratch Resistance

MOH'S SCALE
UNI EN ISO
10545.6

MINERAL

- | | |
|----------------------------|-----------------------------------|
| 1. Talc (Talc) | 6. Microline (Glass, Glazed Tile) |
| 2. Gypsum (Fingernail) | 7. Quartz (Unglazed Porcelain) |
| 3. Calcite (Penny) | 8. Topaz (Granite) |
| 4. Fluorite (Some Marbles) | 9. Corundum (Ruby) |
| 5. Apatite (Knife Blade) | 10. Diamond (Diamond) |
- Industry standard ≤175mm²

Wear Resistance

PEI RATING
UNI EN ISO
10545.7

- Class 1: Walls only
 Class 2: Residential floors w/minimal abrasive traffic
 Class 3: Residential interiors/light commercial traffic
 Class 4: Medium commercial applications
 Class 5: All commercial applications/heavy traffic
- *Wear can vary greatly. please consult with a professional.*

Stain Resistance

ASTM C1378-04
UNI EN ISO
10545.14

- 5: Removed after 5 minutes (hot water running)
 4: Removed by manual cleaning (weak detergent)
 3: Removed by mechanical cleaning (strong detergent)
 2: Removed by immersion (24 hrs in suitable solvent)
 1: Stain not removed

Water Absorption

ASTM C-373
UNI EN ISO
10545.3

Absorbs 0-.5% Absorbs .5-3% Absorbs 3-7% Absorbs 7%+
 Impervious Interior/Exterior Frost Resistant
 Vitreous Interior/Exterior Frost Resistant
 Semi-Vitreous Indoor Use Only
 Non-Vitreous Indoor Use Only

Breaking Strength

ASTM C648
UNI EN ISO
10545.4

Industry standard should be greater than 250 lbs or 50 N/MM²

Facial Dimension

ASTM c499-09
UNI EN ISO
10545.02

Standard	Tolerance	Result
flatness	±5mm	±.5% PASS
thickness	±6mm	±.5% PASS
straightness	±4.5mm	±.5% PASS
squareness	±5.4mm	±.6% PASS
sides L/W	±1.1mm ±4.5mm	±.5% PASS

Chemical Resistance

ASTM C650
UNI EN ISO
10545.13

Allowances for:

	result
Acid	<input type="checkbox"/>
Bases	<input type="checkbox"/>
Chemicals	<input type="checkbox"/>

Lead Information



REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

Sustainable Sites	1 Point
Site selection SS CREDIT 1 Heat Island Effect-non roof Material with a solar reflectant index of at least 29.	<input checked="" type="checkbox"/>
Energy & Atmosphere	1 Point
EA CREDIT 4 Green Power: Products that optimize energy performance for floors and walls using thermal conductivity. BTU-FT	<input checked="" type="checkbox"/>
Indoor Environmental Quality	1 Point
Low-Emitting Materials-Flooring Systems IEQ CREDIT 3.1-7 Green Cleaning: Reducing occupants exposure to hazardous cleaning chemicals.	<input checked="" type="checkbox"/>
IEQ CREDIT 4.1 Low Emitting Adhesives: Products less than 65 G/L VOC	<input checked="" type="checkbox"/>
IEQ CREDIT 4.3 Low Emitting Materials: Flooring systems.	<input checked="" type="checkbox"/>

Materials & Resources	1 Point	2 Points
M&R CREDIT 2 Construction Waste Management: Recycling salvaged construction waste in to new reusable materials.	50% <input type="checkbox"/>	70% <input checked="" type="checkbox"/>
M&R CREDIT 4.1-4.2 Recycled Content: The sum of post consumer plus 1/2 of the pre consumer reps at least 10-20% of total value of materials.	10% <input type="checkbox"/>	20% <input checked="" type="checkbox"/>
M&R CREDIT 5 Regional Materials: Materials manufactured within 500 miles of the project site.	10% <input type="checkbox"/>	20% <input checked="" type="checkbox"/>
Innovation in Design	1-5 Points	
ID CREDIT 1 Innovation in Design Measurable exemplary environmental performance.	<input checked="" type="checkbox"/>	

Type: **Porcelain Stoneware**

Product Line: **MARRAKESH**

The marketing name for this product is property of CobasA-USA. This same product may be marketed under different names.