

MONACO

porcelain stoneware



COBSA USA
NEW YORK | NEW JERSEY | MIAMI

monaco



BEPMOWH10



white

-10x10-

BEPMOWH310



white

-2.5x10-

BEPMOWHBN



white
-5x10 jolly-

BEPMOWHKITKAT



white

-5x10 kit-kat-

BEPMOCA10



capri

-10x10-

monaco



BEPMOBL10



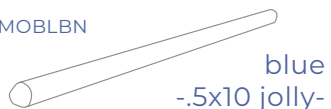
blue -10x10-

BEPMOBL310



blue -2.5x10-

BEPMOBLN



blue
-5x10 jolly-

BEPMOBLKITKAT



blue -5x10 kit-kat-

BEPMOGI10



giglio -10x10-

monaco



monaco



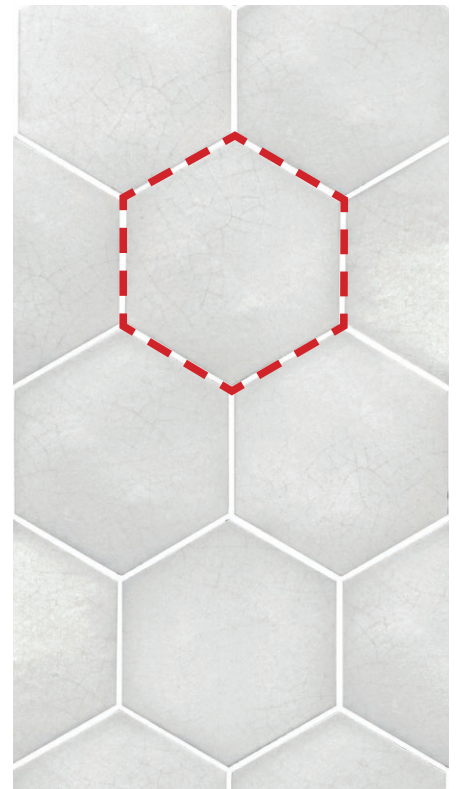
BEPMOWLHEX



(patterns boxed randomly)

white lotus hex -6x7-

BEPMOWHHEX



white hex -6x7-

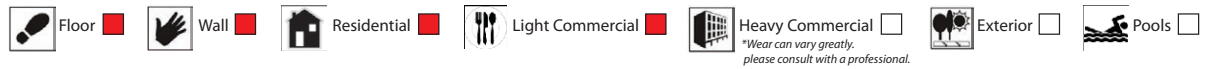


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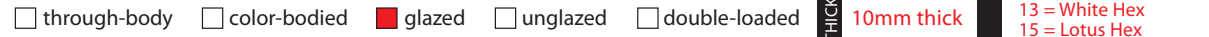
Suggested Applications



Installation Suggestions



Porcelain Type



Shade Variation



Slip Resistance

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

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°)		

DIN 51097		Critical Angle
Class	Typical Applications	
☐ A	Barefoot, but mainly dry aisles and walkways, dry changing areas	≥12°
☐ B	Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas)	≥18°
☐ C	Areas constantly under water, e.g. steps into pools, foot baths, inclined pool surrounds, jacuzzis (plus all Class A&B areas)	≥24°

Scratch Resistance

MOH'S SCALE
UNI EN ISO
10545.6

4

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

- 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

49.2 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:	
Acid	result A
Bases	LA
Chemicals	HA

Leed Information



REQUIREMENTS
FOR COMMERCIAL
INTERIORS/NEW
CONSTRUCTION

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

Materials & Resources	1 Point	2 Points
M&R CREDIT 2 Construction Waste Management: Recycling salvaged construction waste in to new reusable materials.	50% ☒	70% ☐
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% ☐	20% ☒
M&R CREDIT 5 Regional Materials: Materials manufactured within 500 miles of the project site.	10% ☐	20% ☐
Innovation in Design	1-5 Points	
ID CREDIT 1 Innovation in Design Measurable exemplary environmental performance.	☒	

Type:
Porcelain Stoneware

Product Line:
Monaco

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