

# Concrete

porcelain stoneware



**COBSA-USA**

NEW YORK | NEW JERSEY | MIAMI

PORCELAIN STONEWARE



USACODK1224  
*USACPDK1224\**



| 12 x 24 |

USACODK1836  
*USACPDK1836\**



| 18 x 36 |

USACODK636\*  
*USACPDK636\**



| 6 x 36 |

USACODKMOS22  
*USACPKMOS22\**



| 2 x 2 mosaic |

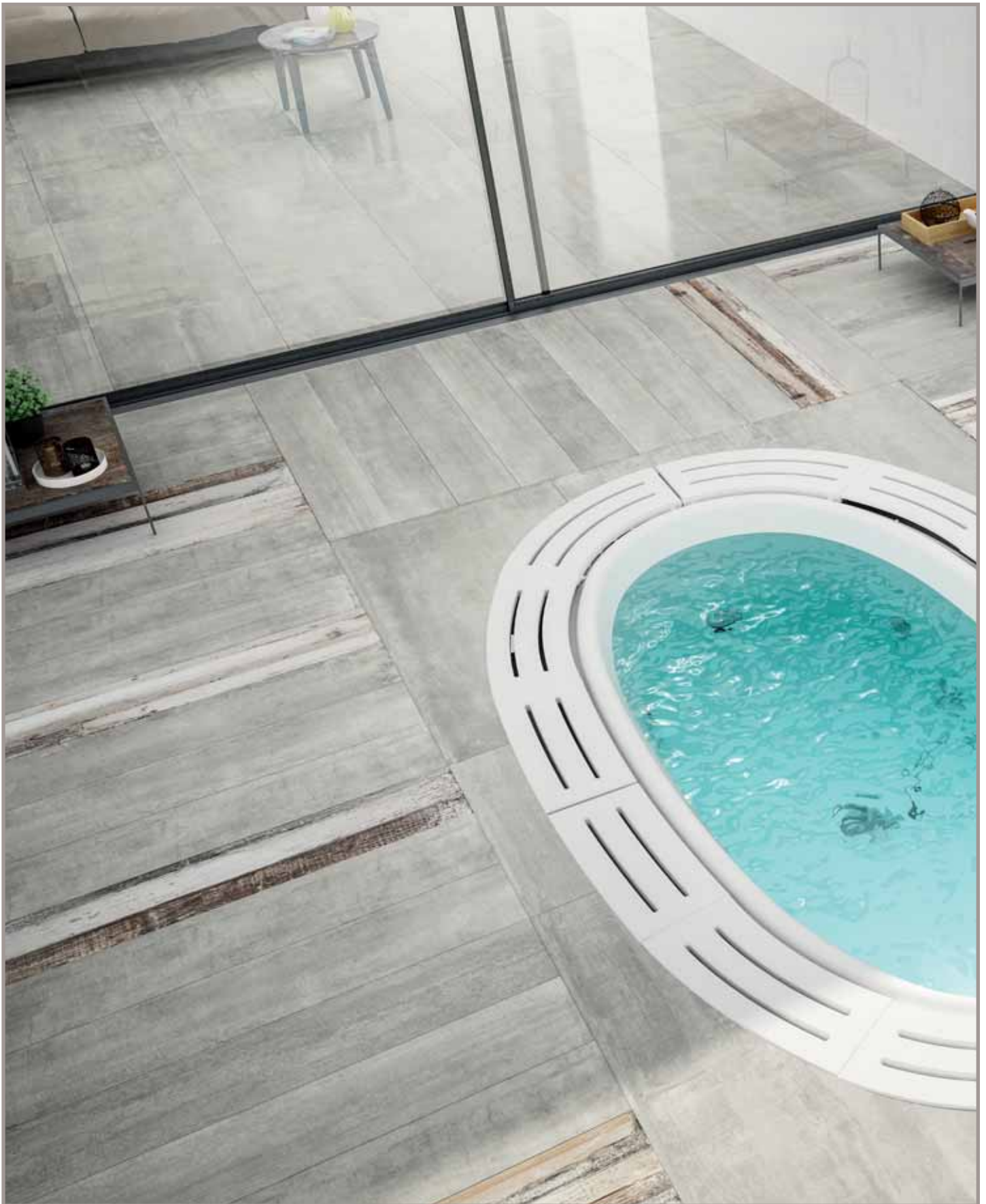
USACODKBN424  
*USACPKBN424\**



| 4 x 24 bullnose |



PORCELAIN STONEWARE



USACOGR1224  
*USACPGR1224\**



| 12 x 24 |

USACOGR1836  
*USACPGR1836\**



| 18 x 36 |

USACOGR636\*  
*USACPGR636\**



| 6 x 36 |

USACOGRMOS22  
*USACPGRMOS22\**



| 2 x 2 mosaic |

USACOGRBN424  
*USACPGRBN424\**



| 4 x 24 bullnose |

PORCELAIN STONEWARE





USACORU1224  
*USACPRU1224\**



| 12 x 24 |

USACORU1836  
*USACPRU1836\**



| 18 x 36 |

USACORU636\*  
*USACPRU636\**



| 6 x 36 |

USACORUMOS22  
*USACPRUMOS22\**



| 2 x 2 mosaic |

USACORUBN424  
*USACPRUBN424\**



| 4 x 24 bullnose |

PORCELAIN STONEWARE





USACOWH1224  
*USACPWH1224\**



| 12 x 24 |

USACOWH1836  
*USACPWH1836\**



| 18 x 36 |

USACOWH636\*  
*USACPWH636\**



| 6 x 36 |

USACOWHMOS22  
*USACPWHMOS22\**



| 2 x 2 mosaic |

USACOWHBN424  
*USACPWHBN424\**



| 4 x 24 bullnose |

PORCELAIN STONEWARE



# Wood

USACOWO1224  
*USACPWO1224\**



| 12 x 24 |

USACOWO1836  
*USACPWO1836\**



| 18 x 36 |

USACOWO636\*  
*USACPWO636\**



| 6 x 36 |

USACOWOMOS22  
*USACPWOMOS22\**



| 2 x 2 mosaic |

USACOWOBN424  
*USACPWOBN424\**



| 4 x 24 bullnose |

*\*Polished Finished: Non-Stock / Special Order (1-2 Weeks)*



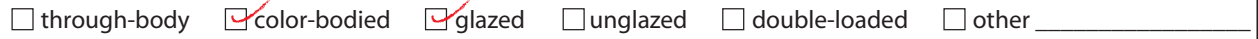
## Suggested Applications



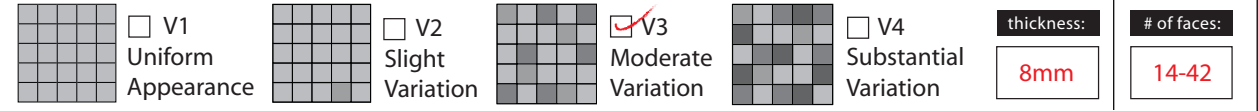
## Installation Suggestions



## Porcelain Type



## Shade Variation



## Slip Resistance



COF	WET		DRY	
	standard*	result	standard*	result
accessible routes	.6		.6	
ramps	.8		.8	

\*Industry Standard/ADA Requirements



Values	Tile Classification
0 - 0.50	Questionable
0.50 - 0.60	Conditionally Slip Resistant
> 0.60	Slip Resistant

### DCOF

.50

### DIN 51130

<input type="checkbox"/> R9*	3-10°
<input type="checkbox"/> R10	10-19°
<input type="checkbox"/> R11	19-27°
<input type="checkbox"/> R12	27-35°
<input type="checkbox"/> R13	>35°

### DIN 51097

Class	Typical Applications	Critical Angle
<input 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 **7**  
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. Flourite (Some Marbles) | 9. Corundum (Ruby)                |
| 5. Apatite (Knife Blade)   | 10. Diamond (Diamond)             |

Industry standard ≤175mm<sup>2</sup>

## Wear Resistance

PEI RATING  
UNI EN ISO 10545.7

- Class 1: Walls only
- Class 2: Resid. floors w/minimal abrasive traffic.
- Class 3: Resid. interiors normal use and foot traffic.
- Class 4: Light-medium commercial applications.
- Class 5: Commercial applications.

## Stain Resistance

ASTM C1378-04  
UNI EN ISO 10545.14 **A**

- 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 **.1%**



Absorbs 0-.5%



Absorbs .5-3%



Absorbs 3-7%



Absorbs 7% +

**Impervious**  
Interior/exterior  
Frost Resistant

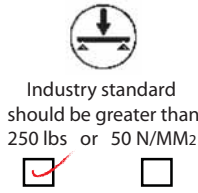
**Vitreous**  
Interior/exterior  
Frost Resistant

**Semi-Vitreous**  
Indoor use only

**Non-Vitreous**  
Indoor use only

## Breaking Strength

ASTM C648  
UNI EN ISO 10545.4 **491 LBF**



## Facial Dimension

ASTM c499-09  
UNI EN ISO 10545.02

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

## Chemical Resistance

ASTM C650  
UNI EN ISO 10545.13

Allowances for:

	result
acid	
bases	
chemicals	

## Leed Information



REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

### Sustainable Sites

Site selection	1 Point
SS CREDIT 1 <b>Heat Island Effect-non roof</b> Material with a solar reflectant index of at least 29.	<input type="checkbox"/>

### Energy & Atmosphere

EA CREDIT 4 <b>Green Power:</b> Products that optimize energy performance for floors and walls using thermal conductivity. BTU-FT	1 Point
	<input type="checkbox"/>

### Indoor Environmental Quality

Low-Emitting Materials-Flooring Systems	1 Point
IEQ CREDIT 3.1-7 <b>Green Cleaning:</b> Reducing occupants exposure to hazardous cleaning chemicals.	<input type="checkbox"/>

IEQ CREDIT 4.1 <b>Low Emitting Adhesives:</b> Products less than 65 G/L VOC	<input type="checkbox"/>
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IEQ CREDIT 4.3 <b>Low Emitting Materials:</b> Flooring systems.	<input checked="" type="checkbox"/>
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### Materials & Resources

M&R CREDIT 2 <b>Construction Waste Management:</b> Recycling salvaged construction waste in to new reusable materials.	1 Point	2 Points
	50% <input type="checkbox"/>	70% <input type="checkbox"/>

M&R CREDIT 4.1-4.2 <b>Recycled Content:</b> 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"/>
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M&R CREDIT 5 <b>Regional Materials:</b> Materials manufactured within 500 miles of the project site.	10% <input type="checkbox"/>	20% <input type="checkbox"/>
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### Innovation in Design

ID CREDIT 1 <b>Innovation in Design</b> Measurable exemplary environmental performance.	1-5 Points
	<input checked="" type="checkbox"/>

Type: **Porcelain Stoneware**

Product Line: **Concrete**