



Relic

porcelain stoneware



TILE - PORCELAIN - STONE - MOSAICS - GLASS

COBSA-USA

NEW YORK | NEW JERSEY | MIAMI

COLOR-BODIED PORCELAIN STONEWARE



BEIGE • 8x8, 8x16, 16x16, 24x24

CER REBE 88



| 8 x 8 |

CER REBE 28



| 2 x 8 |

CER REBE 816



| 8 x 16 |

CER REBE 16



| 16 x 16 |

CER REBE MOS22



12 x 12 sheet

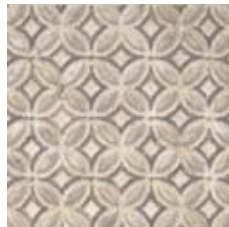
mosaic

| 2 x 2 |

CER REBE D22



decos *enlarged to show item details*



| 2 x 2 |

Beige

CER REBE 1624



| 16 x 24 |

CER REBE 24



| 24 x 24 |

CER REBE BN224



bullnose

| 2 x 24 |

COLOR-BODIED PORCELAIN STONEWARE



BIANCO • 8x8, 8x16, 16x16

CER REBI 88



| 8 x 8 |

CER REBI 28



| 2 x 8 |

CER REBI 816



| 8 x 16 |

CER REBI 16



| 16 x 16 |

CER REBI MOS22

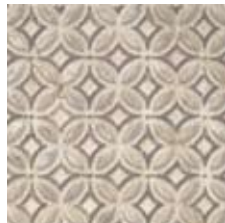


12 x 12 sheet

mosaic

| 2 x 2 |

CER REBI D22



decos *enlarged to show item details*

| 2 x 2 |

Bianco

CER REBI 1624



| 16 x 24 |

CER REBI 24



| 24 x 24 |

CER REBI BN224



bullnose

| 2 x 24 |

COLOR-BODIED PORCELAIN STONEWARE



NOCE • 8x8, 8x16

CER RENO 88



| 8 x 8 |

CER RENO 28



| 2 x 8 |

CER RENO 816



| 8 x 16 |

CER RENO 16



| 16 x 16 |

CER RENO MOS22

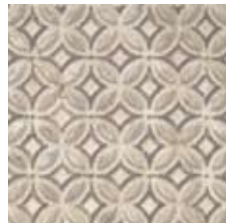


12 x 12 sheet

mosaic

| 2 x 2 |

CER RENO D22



decos *enlarged to show item details*

| 2 x 2 |

Noce

CER RENO 1624



| 16 x 24 |

CER RENO 24



| 24 x 24 |

CER RENO BN224



bullnose

| 2 x 24 |

COLOR-BODIED PORCELAIN STONEWARE



TORTORA • 24x24, 2x2 decos

CER RETO 88



| 8 x 8 |

CER RETO 28



| 2 x 8 |

CER RETO 816



| 8 x 16 |

CER RETO 16



| 16 x 16 |

CER RETO MOS22



12 x 12 sheet

mosaic

| 2 x 2 |

CER RETO 1624



| 16 x 24 |

CER RETO 24



| 24 x 24 |

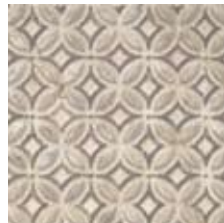
CER RETO BN224



bullnose

| 2 x 24 |

CER RETO D22



decos *enlarged to show item details*

| 2 x 2 |

Tortora

Initial Cleaning During Installation

As with any flooring material, the most important step to care and maintenance is the initial cleaning. The single most important step in caring for your porcelain floor is the removal of setting material, grout residue and/or any other construction residue from the surface BEFORE they have a chance to dry/harden. Please make sure to consult your grout manufacturers cleaning/curing time recommendations before attempting to clean any floor. Grout haze is a film that has been left behind on the surface of the tile as part of the final grouting process. It is a common phase of tile installation.

In most cases, successful cleaning of any Cancos porcelain/ceramic tile by scrubbing the installation with a neutral cleaner followed by a thorough rinsing. If you use Cancos 250 Tile Cleaner, no rinsing is required. Grout manufacturers have printed detailed instructions for proper cleaning/curing of grout; please consult those instructions for important curing instructions. These instructions do not replace nor supersede the manufacturers recommended curing/care instructions.

Proper Care During Construction

Cover your newly installed porcelain/ceramic floor immediately after tile has been properly installed and grouted. The brown paper will protect your new floor from debris during the remaining construction process. The paper will allow for two important things: (1) to protect the newly installed tile grout and (2) to allow moisture to escape from the grout as it cures further protecting the look and utility of the floor. This is an important step in achieving grout color consistency. Never use plastic or non-absorbent materials to protect freshly installed tile. These types of non-absorbent products will trap moisture and can cause the grout to discolor during the curing period. The protective brown paper should remain until construction is complete and the floor is opened for intended (post-construction) use. Some grouting manufacturers require dampening of the grout joints during this time to facilitate color lock and proper cure again make sure you refer to the grout manufacturer's instructions, these instructions do not replace nor supersede the manufacturers recommended curing/care instructions.

Daily Maintenance

Once the initial construction cleaning process has been completed, daily or routine cleaning of Cancos porcelain tiles are simple. Generally they need only to be swept/vacuumed and damp mopped with a neutral cleaner and rinsed if recommended. Again if you use Cancos 250 Tile Cleaner no rinsing is required.

It is important that the cleaner used is a non-oil, non-soap and non-animal fat based product. These cleaners have a tendency to act like magnets and attract dirt and dust and can affect the COF and slip resistance of the floor.

Heavy Duty Maintenance

Neglected or heavily trafficked tile may require more intensive cleaning. For glazed floor tiles, use a commercial tile cleaner, or apply a strong solution of an all-purpose, non oil-based cleaner or scouring powder paste. Let stand for five minutes, brush and scrub. Then rinse with clean water and wipe dry. Unglazed floor tiles, make a paste of scouring powder. Apply to surface and let stand for five minutes. Scour with brush, rinse and wipe dry. Though a small brush is suitable for most floors, you may want to use a scrubbing machine for large areas.

Porcelain tiles are the most durable tiles available, they do not require the use of sealers, surface coating, or waxes on the glazed matte honed or textured finishes. In actuality, the use of such product on the non absorbent nature of porcelain tiles can turn a low maintenance floor into a labor intensive high maintenance floor. In fact, these items, in most cases, can change the finish and/or diminish the slip resistance of the floor and will add unnecessary steps to the overall maintenance program without enhancing the overall appearance.

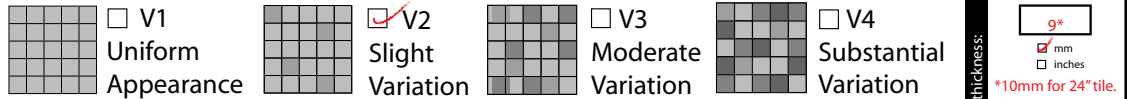
Suggested Applications



Installation Suggestions



Shade Variation



Slip Resistance

Coefficient of Friction				DIN 51130		DIN 51097			
WET		DRY				Class	Typical applications	Critical angle	
accessible routes	standard* .6	result <0.6	standard* .6	result >0.6	<input checked="" type="checkbox"/> R9*	3-10°	A	Barefoot, but mainly dry aisles and walkways, dry changing areas	≥12°
ramps	.8	<0.6	.8	>0.6	<input type="checkbox"/> R10	10-19°	B	Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas)	≥18°
					<input type="checkbox"/> R11	19-27°	C	Areas constantly under water, e.g. steps into pools, foot baths, inclined pool surrounds, jacuzzis (plus all Class A&B areas)	≥24°
					<input type="checkbox"/> R12	27-35°			
					<input type="checkbox"/> R13	>35°			

Values: 0-0.50 Questionable, 0.50-0.60 Conditionally Slip Resistant, >0.60 Slip Resistant

Tile Classification: Questionable, Conditionally Slip Resistant, Slip Resistant

*Industry Standard/ADA Requirements

ASTM C-1028
DIN 51097/51130

Scratch Resistance

Mineral	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)

MOH'S SCALE **6**

UNI EN ISO 10545.6 **<175**

Industry standard ≤175mm²

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

Water Absorption

ASTM C-373
UNI EN ISO 10545.3 **0-0.5**

<input checked="" type="checkbox"/> Absorbs 0-.5%	<input type="checkbox"/> Absorbs .5-3%	<input type="checkbox"/> Absorbs 3-7%	<input type="checkbox"/> 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 **Pass**

Industry standard should be greater than 250 lbs or 35 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 LW	± 1.1mm ± 4.5mm	± .5%	PASS

Chemical Resistance

ASTM C650
UNI EN ISO 10545.13

Allowances for:

	result
acid	PASS
bases	PASS
chemicals	PASS

Leed Information

REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

Sustainable Sites

Site selection
SS CREDIT 1
Heat Island Effect-non roof
Material with a solar reflectant index of at least 29.

Energy & Atmosphere

EA CREDIT 4
Green Power: Products that optimize energy performance for floors and walls using thermal conductivity. BTU-FT

Indoor Environmental Quality

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/LVOC

IEQ CREDIT 4.3
Low Emitting Materials: Flooring systems.

Allowances for:

	1 Point	2 Points
Materials & Resources		
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"/>	40% <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 type="checkbox"/>
Innovation in Design		1-5 Points
ID CREDIT 1 Innovation in Design Measurable exemplary environmental performance.		<input checked="" type="checkbox"/>

Type:
Color Bodied
Porcelain Stoneware

Product Line:
ReiC

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NEW YORK | NEW JERSEY | MIAMI

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