



CERAMIC TILE ESSENTIALS

QUICK-CARDS® A DIAGNOSE QUICK-REFERENCE GUIDE

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TILE - THE BASICS

LOOSE & SHEET-MOUNTED TILE



FACE-MOUNTED & BACK-MOUNTED TILE

Face-mounted tiles come with paper. They are set and then the paper is removed before grouting. Back-mounted tiles have either perforated paper, fiber mesh or resin that becomes part of the tile installation system.

CATEGORIES OF CERAMIC TILES

TILE TYPE	POROSITY	USE	ADDITIONAL INFO.
Impervious Tile	Absorbs less than 0.05% of its own weight in moisture.	Exterior applications such as walk-in patios.	• Doesn't tile available. • Needs to be special ordered.
Vitreous Tile	Absorbs less than 3% of its own weight in moisture.	For both exterior and interior applications. Typically used for using pools and fountains.	• Least porous of the common tiles.
Semi-vitreous Tile	Absorbs 3% to 6% of its own weight in moisture.	For both exterior and interior applications. Interior, both of interior walls. Exterior, walk-in patios.	• Can tolerate freezing and thawing conditions.
Non-vitreous Tile	Absorbs over 7% of its own weight in moisture.	Interior applications such as walls, floors and countertops.	• Most porous of tiles. • Unsuitable for exterior use.

SIZE & SHAPE

Size: Tiles range from mosaic (1 in²) to pavers (12 in²). Smaller tiles come attached to a sheet of paper, or come, usually in 1' squares.
Shape: Squares and rectangular are the most common tile shapes.

POWDER ACTING SYSTEM

GROUP	USES
Group I	Tile suitable for residential bathrooms where soft footprints is seen.
Group II	Tile suitable for general residential areas, except kitchens, entrance halls and other areas subjected to continuous heavy use.
Group III	Tile suitable for all residential and light commercial areas.
Group IV	Tile suitable for medium commercial and light institutional applications, such as restaurants, hotels and hospital corridors.
Group V	Tile suitable for heavy traffic and wet areas where safety and resistance to stains are required, such as airports, walkways, food service areas, banking entrances and shopping centers.

INFO YOU MUST KNOW!

Keep in mind that all tile is porous. Water can seep through the grout and cause problems in the building even in tiles that have low porosity. For kitchen and bath applications, use a water-resistant backing like greenboard, a cement-based backerboard finished with a water-resistant joint compound, or a water proof membrane.

4 TYPES OF TILES - CROSS-SECTION



MORTARS & MASTICS

MORTARS & MASTICS

- Mortars and mastics are bonding/setting materials used to secure tile in place.
- Application Temperature: 70° to 85° min. temperature 50°

MORTARS

- Requires mixing and have a short set life.
- Stronger than mastics and hold up better to prolonged exposure to water or heat.

PORTLAND CEMENT MORTAR

- Portland cement mortar is typically used to lay tile.
- Consists Portland cement in a thick bed, 1/2" to 3/4" deep.
- Apply finished mortar in 1/32" to 1/8" thick.
- Portland cement is composed of cement, sand and lime.
- Portland Cement Floor Mix Ratio: 1:3
- Portland Cement Wall Mix Ratio: 1:3 1/2 to 1:2 1/2
- Note: Lime makes mortar easier to work with and thicker but it makes mortar weaker.

INFO YOU MUST KNOW!

- Put life refers to the length of time a material is usable after mixing.

MASTICS

- Solvent or latex-based.
- Pre-mixed
- Not water resistant
- Organic

MORTARS & MASTICS

TYPE	Minimum Uses	Suitable Substrates	Method	Advantages	Disadvantages
Portland Cement Mortar	Floors and walls	Masonry, concrete, wood or steel stud frame, rough wood floors, plywood form, form-insulation board, drywall, plaster	Thin bed (1/4") Thick bed (1/2" to 3/4")	• Waterproof. • If in thick bed allows for plumbing and irregular surfaces. • High structural strength.	• More difficult to apply.
Dry Set Mortar (Thin-bed)	Floors and walls	Masonry, drywall, glass mesh mortar units, cured Portland cement mortar beds, ceramic tile, dimensional stone	Thin bed (1/4")	• Lightweight, but doesn't form a water barrier. • Easy to use. • Water resistant. • Non-toxic. • Good for exterior work.	• Does not allow for plumbing. • Does not allow for irregular of surfaces.
Latex Portland Cement Mortar	Floors and walls	Masonry, drywall, glass mesh mortar units, cured Portland cement mortar beds, ceramic tile, dimensional stone	Thin bed	• Less rigid than Portland cement mortar.	• For areas exposed to constant moisture (swimming pools, showers, etc.). • Needs to dry 14 to 60 days, depending on climate and whether tile is indoors or outdoors.
Epoxy Mortar	Floors	Concrete, wood, plywood, steel plate, ceramic tile	Thin bed	• High bond strength. • High impact resistance. • High chemical.	• Expensive. • Difficult to use. • Longer set time.
Epoxy Mortar	Floors	Concrete, wood, plywood, steel plate, ceramic tile	Thin bed	• High chemical resistance. • Quick setting.	• High cost. • Difficult to use.
Epoxy Mastic (Epoxy Adhesive)	Floors, walls & counters	Plywood, drywall	Thin bed	• Easy to apply. • High bond strength.	• Not as resistant to chemicals or solvents as epoxy mortar.
Organic Mastic (Organic Adhesive)	Floors, walls & counters	Dry wood, drywall, plaster, Portland cement mortar, concrete, masonry, set cured Portland cement mortar, ceramic tile, masonry, and for walls, greenboard	Thin bed	• Flexibility.	• Bond strength varies from one manufacturer to another, some are flammable. • Not suitable for exterior use or swimming pools. • Low chemical and solvent resistance.

Ceramic Tile Essentials

**Editors of Cool Springs Press, Chris
Peterson**



Ceramic Tile Essentials:

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sample of the projects inside includes Home Heating and Cooling Install v strip door weather stripping install adhesive foam window weather stripping seal air leaks insulate an attic or crawl space caulk windows and doors install a smoke detector replace a bathroom fan clean and maintain a central AC unit replace a furnace filter seal and insulate ductwork install a ceiling fan replace an exterior dryer vent Structural Openings Hang a new door install a lockset install a screen or storm door install bi fold closet doors maintain a sliding glass door replace a window pane patch a window screen Plumbing Install a touchless faucet repair a pop up drain stopper repair the four most common types of faucets repair a kitchen sink sprayer install a pedestal sink unclog a sink adjust shower water temperature repair a leaking shut off valve replace a toilet o ring or flush mechanism drain your water heater recaulk a tub insulate water pipes Electrical Issues Install undercabinet lighting install a dimmer switch upgrade an outlet to GFCI install a whole house surge protector fix a dead outlet replace a light fixture Interior Surfaces Fix a wall crack install a backsplash hang a floating shelf fix damaged tile countertop fix floor squeaks repair water damage Exterior Concerns Fix a roof hole replace shingles patch a steel gutter install gutter screens repair or replace roof flashing maintain a garage door repair damaged siding stiffen or reinforce an unstable deck install a floodlight Clear easy to follow instructions with photos of each step lead the way This is a book that gives you more power and control over your home saves frustration and ideally helps save some money as well The essential Guide to Construction Management & Building Engineering John Michael Kirby, Enrique David Ll acer, 2012-10-30 This book looks to cover the differences the new professional will encounter as he takes on his new position overseas The book not only covers the basic technical translations of the items likely to be encountered during your work but also covers what I would call the unspoken word These are cultural differences such as technical phrases modern work concepts terminology standard practices The book takes the student through all stages of construction and explains in detail the principal phases that the student is expected to understand know in the new Hi tech and fast changing environment It will be a good reference book which will enable the student to rapidly adapt to their new environment by helping them understand the basic principles working practices descriptions etc which some countries will take for granted A great aid for the aspiring foreign professional I only wish it was available when I first came to Spain some 23 years ago Peter Wilkey FCIQB CIOB Ambassador for Spain Gibraltar Este excelente libro es una gu a fundamental para los arquitectos espa oles u otros profesionales que quieran conocer o desarrollar su labor en un entorno anglosaj n Luis M Sendra Mengual Presidente CTAV Colegio Territorial de Arquitectos de Valencia La vocaci n de internacionalizaci n se ha convertido ahora en una exigencia que debemos atender este libro es un importante primer paso Rafael S nchez Grand a Director ESTIE UPV Una herramienta til y una gu a eficaz para el profesional de la construcci n Jos Ram n Roca Rivera Presidente del Colegio de Aparejadores Arquitectos T cnicos e Ingenieros de Edificaci n de Valencia **The Essential Bogosian** Eric Bogosian, 2012-12-15 What Lenny Bruce was to the 1950s Bob Dylan to the 1960s Woody Allen to the 1970s that s what Eric Bogosian is to this frightening moment of drift in our history

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Table of Contents Ceramic Tile Essentials

1. Understanding the eBook Ceramic Tile Essentials
 - The Rise of Digital Reading Ceramic Tile Essentials
 - Advantages of eBooks Over Traditional Books
2. Identifying Ceramic Tile Essentials
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ceramic Tile Essentials
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ceramic Tile Essentials
 - Personalized Recommendations
 - Ceramic Tile Essentials User Reviews and Ratings
 - Ceramic Tile Essentials and Bestseller Lists
5. Accessing Ceramic Tile Essentials Free and Paid eBooks
 - Ceramic Tile Essentials Public Domain eBooks
 - Ceramic Tile Essentials eBook Subscription Services
 - Ceramic Tile Essentials Budget-Friendly Options

6. Navigating Ceramic Tile Essentials eBook Formats
 - ePub, PDF, MOBI, and More
 - Ceramic Tile Essentials Compatibility with Devices
 - Ceramic Tile Essentials Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ceramic Tile Essentials
 - Highlighting and Note-Taking Ceramic Tile Essentials
 - Interactive Elements Ceramic Tile Essentials
8. Staying Engaged with Ceramic Tile Essentials
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ceramic Tile Essentials
9. Balancing eBooks and Physical Books Ceramic Tile Essentials
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ceramic Tile Essentials
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ceramic Tile Essentials
 - Setting Reading Goals Ceramic Tile Essentials
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ceramic Tile Essentials
 - Fact-Checking eBook Content of Ceramic Tile Essentials
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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