QUIKRETE®

CEMENT & CONCRETE PRODUCTS™

TRAINING MODULE 4

Cement & Concrete Products - OVERVIEW

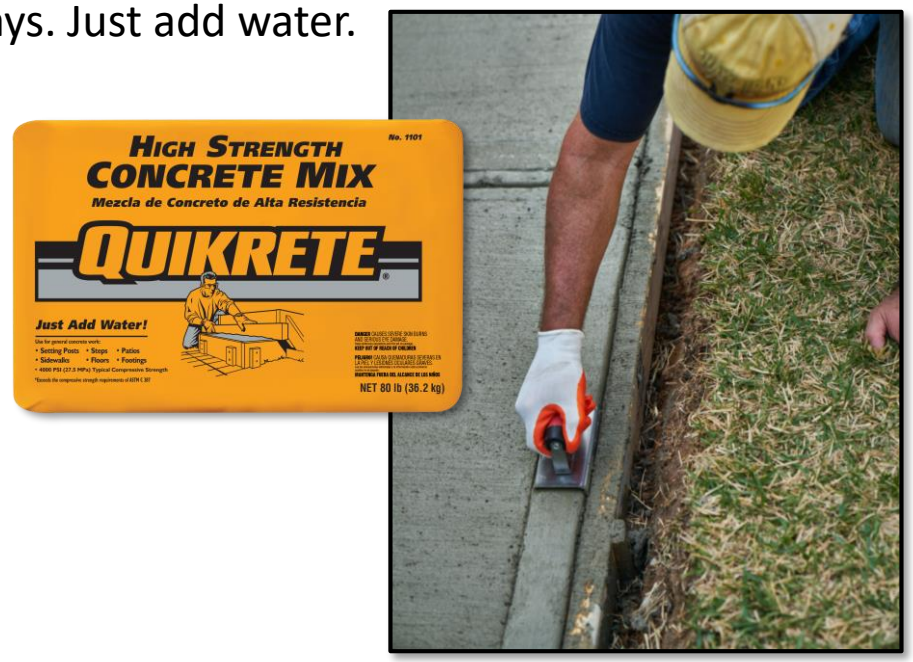
QUIKRETE® Concrete Mix (no. 1101)

When to use: General use

QUIKRETE® Concrete mix (the iconic yellow bag) is a blend of portland cement, sand and gravel or stone and other approved ingredients. It can be used for any general concrete application over 2” thick and is formulated to typically achieve 4000 psi compressive strength in 28 days. Just add water.

Use for:

- *Sidewalks*
- *Lawn borders*
- *Steps*
- *Walls*
- *Floors*
- *Patios*
- *Foundations*
- *Curbs*



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QUIKRETE® Fast-Setting Concrete Mix (no. 1004)

Why use: Set posts without mixing or small-scale, general concrete work

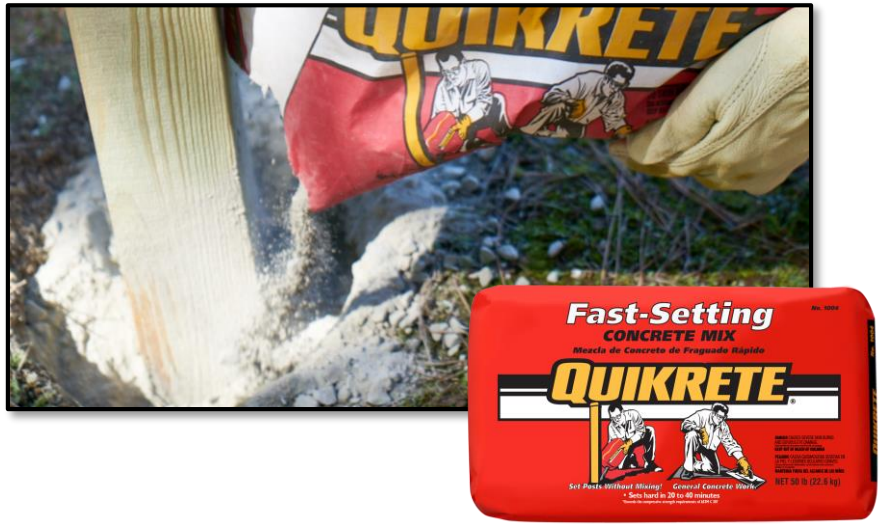
QUIKRETE® Fast-Setting Concrete ("The Red Bag") is a special blend of fast-setting cements, sand and gravel designed to set hard in about 20-40 minutes. Fast-Setting Concrete is designed to set posts without mixing simply by pouring the dry mix into the hole and then soaking with water. Heavy weight can be applied in as little at 4 hours. Fast-Setting concrete can also be used for general concrete building applications over 2" thick.

Use for setting:

- *Fence posts*
- *Mailbox posts*
- *Swing sets*
- *Basketball Goals*

Use for building:

- *Walkways*
- *Sidewalks*
- *Air conditioner pads*



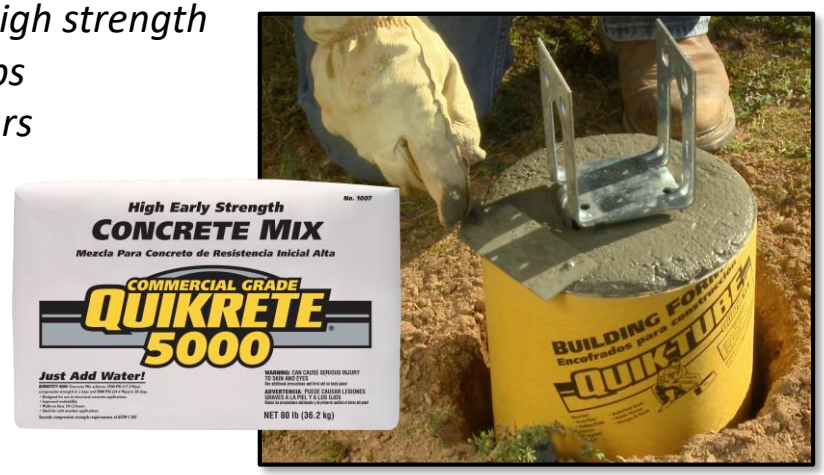
QUIKRETE® 5000 Concrete Mix (no. 1007)

Why use: High early strength

QUIKRETE® 5000 is a commercial grade concrete mix designed to achieve high-early strength. This structural concrete has a walk on time of 10 hours and exceeds 2500 psi in 3 days and 5000 psi in 28 days. QUIKRETE® 5000 can be used in applications over 2” thick and is ideal for cold weather projects and uses that require high strength.

Use for:

- *Concrete projects 2” thick or more that require high strength*
- *Driveway aprons*
- *Patios*
- *Curbs*
- *Sign footings*
- *Deck Supports*
- *Floors*



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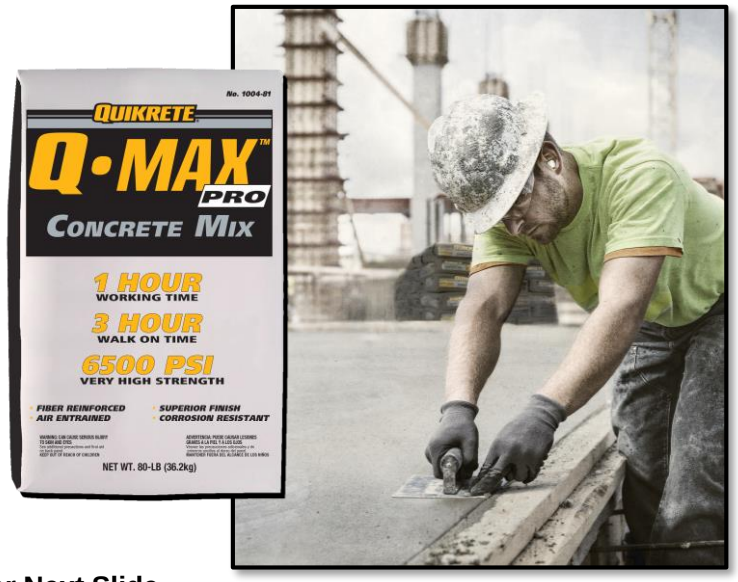
Q-Max Pro Concrete Mix (no. 1004-81)

Why use: 1 hour working time – 3 hour walk-on time – 6,500 PSI

QUIKRETE® Q-Max Pro Concrete Mix is a fiber-reinforced, rapid-hardening concrete formulated to provide a 1-hour working time, a walk-on time of 3 hours and achieve a compressive strength of 6,500 PSI. The mix provides superior workability, finishing characteristics and resists shrinkage cracking. It is air entrained for improved freeze-thaw durability and contains a corrosion inhibitor to protect reinforced steel.

Use for:

- *Slabs*
- *Footings*
- *Steps*
- *Columns*
- *Walls*
- *Floors*
- *Ramps*
- *Sidewalks*
- *Patios*



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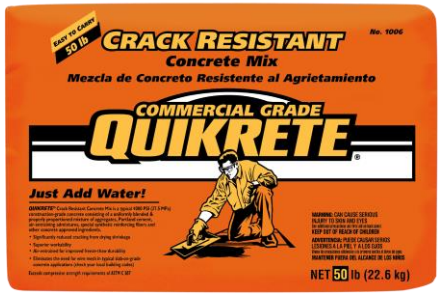
QUIKRETE® Crack Resistant Concrete Mix (no. 1006)

Why to use: Resists cracking & spalling

QUIKRETE® Crack Resistant Concrete Mix is formulated with air entraining admixture and mono-filament synthetic fibers to reduce cracking from drying shrinkage and to improve surface durability, especially in extreme freeze/thaw conditions. The mix achieves 4000 psi in 28 days and has superior workability and finishability. Crack Resistant Concrete can be used in applications over 2" thick and can eliminate the need for wire mesh in typical slab-on-grade concrete applications.

Use for:

- *Structural and non-structural concrete over 2" thick.*
- *Footings*
- *Sidewalks*
- *Floor slabs*
- *Tool shed bases*
- *Appliance Slabs*
- *Ramps*
- *Walkways*
- *Poured Walls*
- *Driveways*
- *Curbs*
- *Steps*



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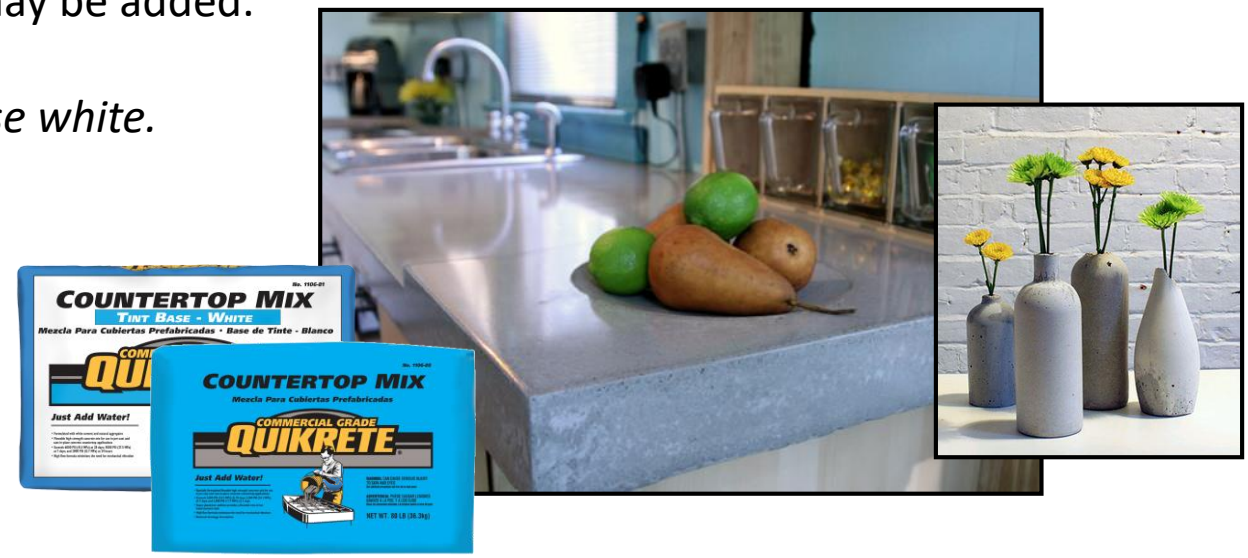
QUIKRETE® Countertop Mix (no. 1106-80, 81)

When to use: Concrete countertops and cast concrete pieces

QUIKRETE® Countertop Mix is a specially formulated, flowable, high-strength concrete mix for use in pre-cast and cast-in-place concrete countertop applications. The mix requires minimal mechanical vibration and can be stripped from forms in as little as 18 hours. Countertop mix achieves 5000 psi in 28 days. Decorative stone or glass may be added.

Available in gray or tint-base white.



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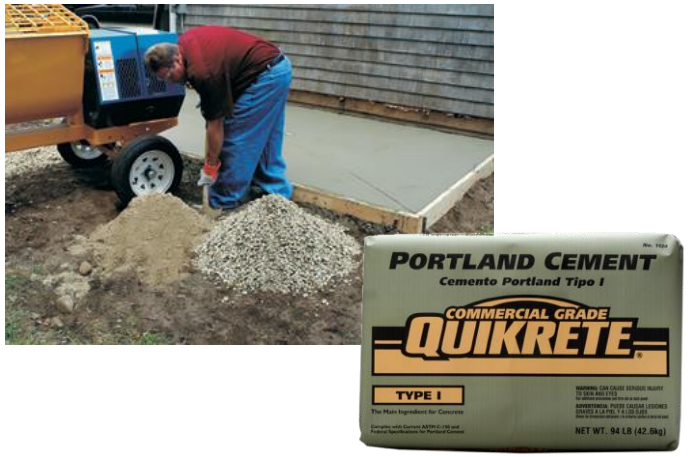
QUIKRETE® Portland Cement (no. 1124)

Why to use: Mix with sand & gravel to make concrete (or masonry sand and hydrated lime to make mortar)

QUIKRETE® Portland Cement can be mixed with aggregate and other ingredients to make concrete mix, mortar mix and stucco. Portland cement is the "glue" that holds the materials together. *QUIKRETE® Portland Cement meets the ASTM C 150 and federal specifications for portland cement.*



To Make Concrete:

3 parts gravel
2 parts sand
1 part cement (by volume)

To Make Mortar:

3.5 to 4 parts masonry sand
.5 parts hydrated lime
1 part Portland cement (by volume)

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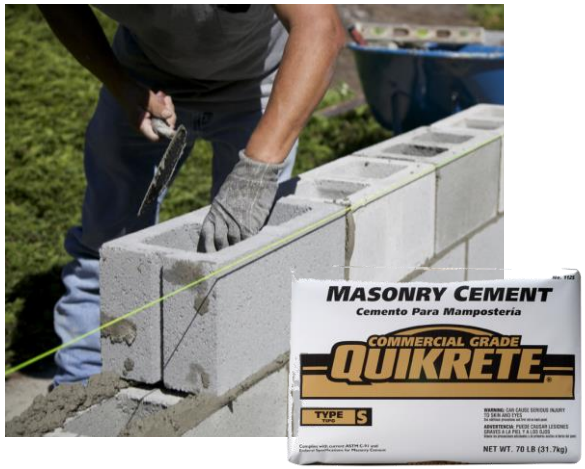
QUIKRETE® Masonry Cement (no. 1125-71, 70)

Why use: Mix with sand to make mortar

QUIKRETE® Masonry Cement is available in Type N (for non-structural applications) and Type S (for both non-structural and load-bearing applications). *QUIKRETE® Masonry Cement meets the requirements of ASTM C 91 and federal specifications for masonry cement.*



To Make Type N Mortar Mix:
3 parts masonry sand
1 part Type N Masonry Cement (by volume)

To Make Type S Mortar Mix:
3 parts masonry sand
1 part Type S Masonry Cement (by volume)

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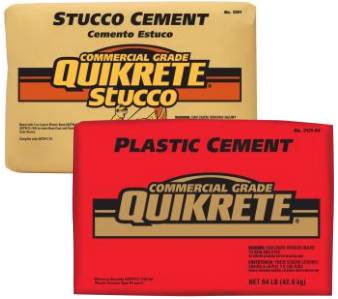
Regionally Available Cements

QUIKRETE® Premium Plastering Cement is a properly proportioned blend of portland cement with air entraining and plasticized admixtures. It is used with plaster sand (coarse stucco sand) to make base coat (scratch & brown coat) and finish coat (texture coat) stucco.

Portland–Lime Cement: Blend of portland cement and hydrated lime meeting Type S proportions. Add mason sand to make Type S mortar mix.



Stucco Cement: Blended cement for use with plaster sand (coarse stucco sand) to make base coat (scratch & brown coat) and finish coat (texture coat) stucco. **Plastic Cement** is a type of stucco cement used with plaster sand to make base coat stucco (scratch & brown coat).

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Cement & Concrete Products Quiz

1. Which concrete mix should you use if you are building a small, outdoor utility slab and need it to be set in about 45 minutes?
   a) QUIKRETE Concrete Mix (Yellow Bag)
   b) QUIKRETE Fast-Setting Concrete Mix (Red Bag)
   c) QUIKRETE 5000 Concrete Mix
   d) QUIKRETE Masonry Cement

2. Masonry cement's basic ingredients include the following:
   a) Hydrated Lime
   b) Masonry Sand
   c) Portland Cement
   d) All of the Above
   e) None of the Above

3. Masonry Cement – Type S is only used for non-structural applications.
   a) True
   b) False

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Cement & Concrete Products Quiz - Answers

1. B – QUIKRETE Fast-Setting Concrete Mix

2. D - All of the Above

3. False – Masonry Cement - Type S can be used for both non-structural applications AND load bearing applications.