



## Stucco Advantages

Stucco (also known as cement plaster) is a durable traditional exterior cladding finish system. There are many reasons for its continued use from ancient times to contemporary times, including:

- Versatility of design and aesthetic appeal
- Variety of finish styles and color
- Water resistance
- Performance in a wide range of climates, endurance of wet/dry and freeze/thaw cycles
- Fire-resistive properties
- Low maintenance and life-cycle cost ratio
- High abuse and impact resistance

Stucco has proven its performance through thousands of years of use.

## The History of Stucco

- 2500 B.C. –Egyptians incorporate stucco in the great pyramids using gypsum and lime.
- 1725 A.D. –The Alamo is built utilizing stucco from mud and straw.

## Beneficial Properties of Stucco

### Base Coat (Scratch Coat & Brown Coat)

#### Hardness

- Impact resistance
- Abrasion resistance

#### Weather Resistance

- Resistance to rain penetration – Self draining system
- Resistance to extreme thermal and moisture changes
- Resistance to natural environment, acid rain, wind and snow

#### Vapor Permeable

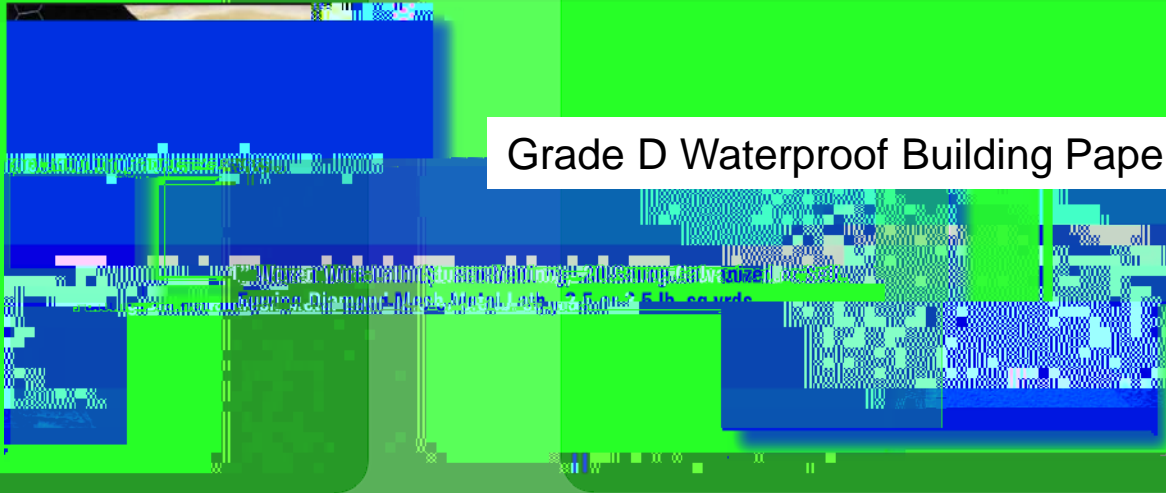
## Three Coat System (Traditional Scratch Coat & Brown Coat)

Moisture Protection

Two Layers of Grade D Water Resistant Building Paper.

Lath

1" woven wire stucco netting – 20 gauge galvanized or self-furring diamond expanded metal lath



Grade D Waterproof Building Paper –

## Three Coat System

Total Wall System Thickness 1"

### Scratch Coat

Applied at 3/8" thick, it serves as the foundation for the final two coats. After the scratch coat is applied, it is scored with a special scarifier rake or scratching trowel to promote a better mechanical bond with the brown coat.

Horizontal grooves should be 1/8" deep .

Recommended QUIKRETE® Product:

QUIKRETE® Base Coat Stucco – Scratch & Brown



## Three Coat System

### Brown Coat

Applied at 3/8" thick as a leveling coat that provides a smooth, flat surface for the application of the color and texture coat.

1. Trowel or spray applied
2. Use a straight board to screed the stucco flat
3. After the stucco has lost it's sheen float the surface smooth
4. Must cure for two days and then air cure for an additional 5 days prior to application of finish/texture coat

Recommended QUIKRETE® Product:

QUIKRETE® Base Coat Stucco – Scratch & Brown



## Three Coat System

### Finish Coat – Cement Based

Applied with trowel at a minimum 1/8" thickness, working from the bottom to the top of the wall. The finish coat is then smoothed and a texture is applied. Moist cure for several days by misting with a fine water spray.



Recommended QUIKRETE® Product:

QUIKRETE® Finish Coat Stucco



3 -

Self-Financing Diamond Mesa, Vista - at 2.5 on 3.5 h. Savings

Drawn Coat @ 3/5

Finish Coat @ 1/3 - 2/4

at 1.5 on 2.5 h.

Finish Coat @

## Two Coat System

Total Thickness - Over Masonry Walls 3/8"  
Over Concrete Walls 3/8" to 5/8"

### Wall Substrates

- Masonry Walls (unpainted)
- Concrete Walls (unpainted)

### Moisture Protection

- Grade D Building Paper: **Not required**

### Lath

- **Not required** for unpainted porous masonry walls



2 – Coat System:  
Applied over concrete or  
dense masonry surfaces

2 – Coat System:  
Applied over porous  
masonry surfaces

Substrate

Bonding Adhesive

Brown Coat @ 1/2"

Finish Coat @  
1/8 – 1/4"

## One Coat System

### One Coat Stucco Base

Applied at 3/8" to 1/2" thickness in one application.  
and smoothed with a rubber float.

Screened flat

One-Coat should be moist cured for 2 days then air cured for 5 days  
prior to application of finish coat.

Recommended QUIKRETE® Product:

One-Coat Fiberglass- Reinforced Stucco

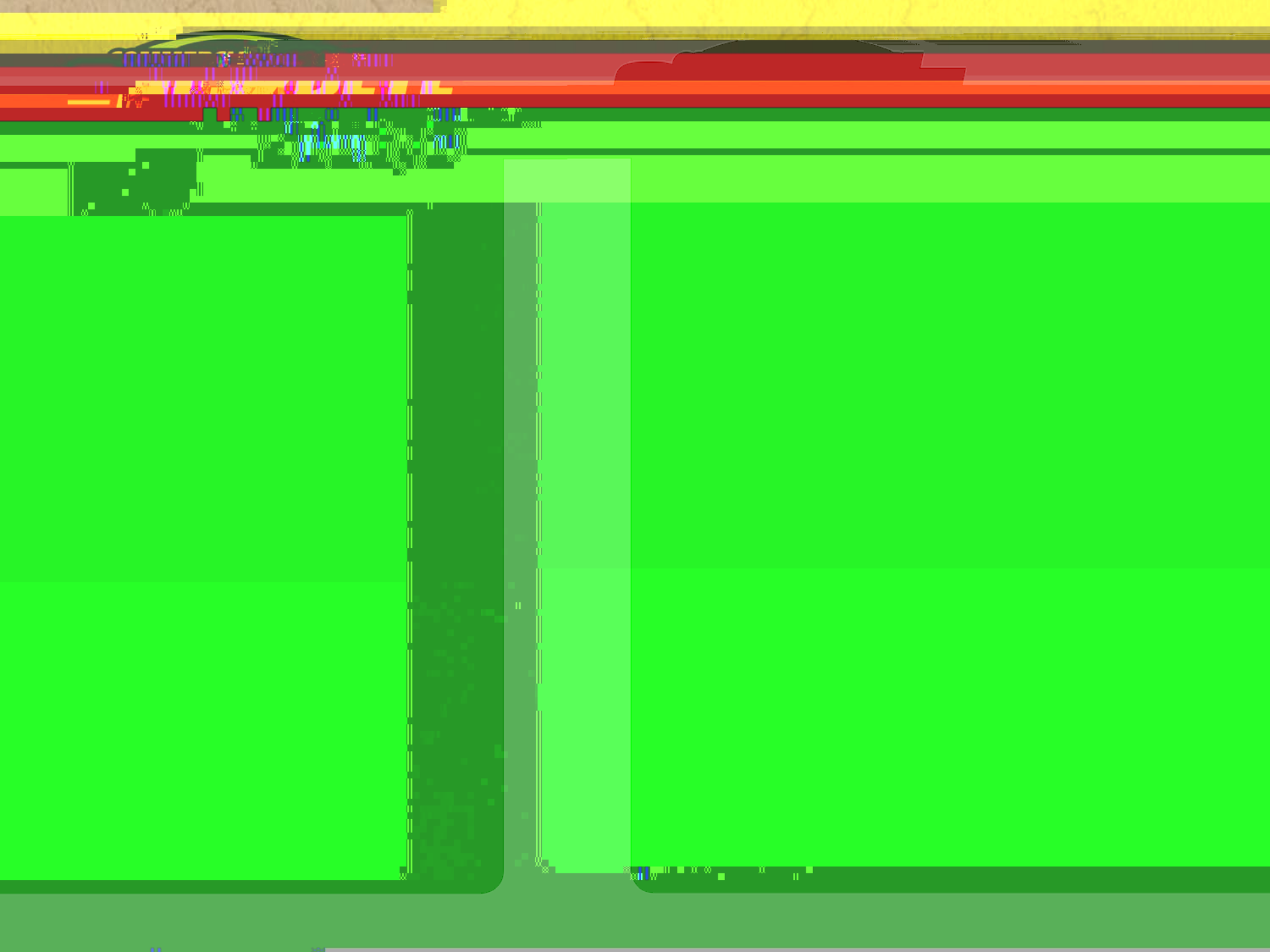


## One Coat System

Finish Coat

Recommended QUIKRETE® Product:  
QUIKRETE® Finish Coat Stucco





## 1 Coat System:



Plywood/OSB Substrate

Grade D Waterproof Building Paper – 2 layers







1 Coat Insulated System:

Plywood/OSB Substrate

Grade D Waterproof Building Paper – 2 layers

Expanded Polystyrene (EPS) Foam Insulation Board

1" Woven Wire Lath (Stucco Netting) – 20 Gauge Galvanized or  
Self-Furring Diamond Mesh Metal Lath – 2.5 or 3.5 lb. sq yds

One Coat Fiberglass Reinforced Stucco @ 3/8" – 1/2"

Finish



# QUIKRETE® Stucco Product Review



## Base Coat Stucco – Pump Grade

QUIKRETE® Base Coat Stucco - Pump Grade (No. 1139-86) is a factory blended, Fiber Reinforced Portland cement based scratch and brown coat stucco mix designed for use in spray applications. Formulation significantly reduces shrinkage cracking.

Use for:

- Scratch and brown coat in 3 -coat stucco application
- Apply directly to masonry walls in a 2 -coat stucco application

### COVERAGE:

- Approximately 25 sq ft @ 3/8" thickness per 80 lb bag.





Base Coat Stucco with Water -

## One Coat Fiberglass Reinforced Stucco (FRS)

QUIKRETE® One Coat Fiberglass Reinforced Stucco (No. 1200-80 Sanded) is a one-coat stucco designed for use over plywood or OSB sheathing and exterior insulation wall panel systems.

- Achieves a one-hour fire rating when applied over the combination of OSB and EPS foam and plywood and EPS foam.
- Fiberglass Reinforced Stucco can be pumped and spray applied or trowel applied.
- Shrinkage compensated formulation resists cracking from drying shrinkage

### COVERAGE:

- 80 lb QUIKRETE® One Coat FRS – Sanded - approximately 25 sq ft @ 3/8" thickness

## Foam Coating

QUIKRETE® Foam Coating (No. 1219) is a polymer-modified,



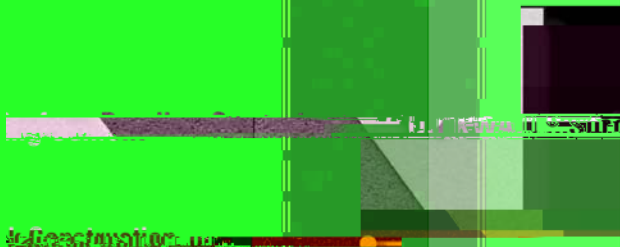


**QUIKWALL® - Surface Bonding Cement (SBC)**  
QUIKWALL® Surface Bonding Cement (No. 1230) is an alkali-resistant (AR), fiberglass reinforced portland cement design for use in dry stack masonry wall construction. QUIKWALL® is used in a one coat application providing both structural strength and a textured stucco finish.

**COLORS**  
Gray & White

**Surface Bonding Cement:**  
Applied directly to dry stacked masonry block

Applied directly to dry-stacked



**QUIKWALL® Surface Bonding Cement**

**Masonry Substrate-Dry Stack  
Construction**

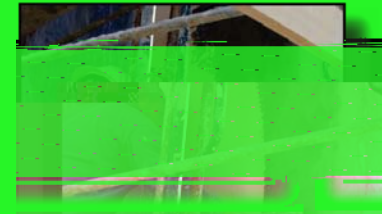


## Finish Coat Stucco

QUIKRETE® Finish Coat Stucco (No. 1201 & 1202) is a Portland cement based finishing plaster. It is designed for use as a decorative finish over Portland cement base coats or QUIKRETE® One Coat Fiberglass-Reinforced Stucco (No. 1200).

### COLORS

White & Gray



## Stucco & Mortar Colors

QUIKRETE® Stucco and Mortar Color (No. 1319) can be added to the mixing water prior to the addition of the dry Finish Coat Stucco or QUIKWALL® to provide permanent integral color. 20 standard col TE

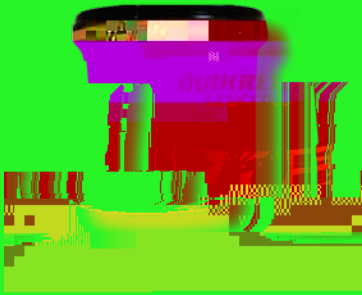


## Stucco Repair

QUIKRETE® Stucco Repair (Product No. 8650-10) is a sanded acrylic formula that blends with the surrounding stucco surface. The weather resistant formula fills and seals cracks in stucco up to 1/2" wide.

### COVERAGE:

- 10.1 fl oz tubes yield about 12 lineal ft for 3/8" diameter bead



## Pre-Mixed Stucco Patch

Pre-Mixed Stucco Patch (No. 8650-32) is a sanded acrylic latex repair compound for making repairs to cracks, holes and breaks up to 1/4" thick in exterior or interior stucco surfaces. Trowel applied low-shrinkage formulation dries to a durable flexible finish.

COLOR:  
Off-white



1. The minimum stucco thickness of a traditional three-

4. The scratch coat and brown coat are each a minimum \_\_\_\_\_ thickness?
  - a) 3/8"
  - b) 1/4"
  - c) 3/4"
  - d) 1"
  
5. One 80 lb Bag of Base Coat Stucco will cover approximately \_\_\_\_\_ Square Feet at 3/8" thick?
  - a) 10
  - b) 25
  - c) 50
  - d) 100
  
6. QUIKRETE® Base Coat Stucco can be used for both two-coat and three-coat stucco applications.  
True  
False

7.

9. QUIKRETE® Stucco & Mortar colors can be added to the mixing water or brushed on the finish coat surface while it is still wet.

True

False

10. QUIKRETE® Pre-Mixed Stucco Patch can be applied to a full depth of 1" in one application.

True

False

## QUIZ ANSWERS:

1.