



SECTION 09 7505

ULTRACOMPACT WALL FINISHES - THIN SET

PART 1. GENERAL

1.1 SUMMARY

A. Section Includes:

1. Quartz interior wall finishes.
2. Setting materials and accessories.

B. Related Sections:

1. Division 01: Administrative, procedural, and temporary work requirements.
2. Section [] - Cementitious backer unit substrate.
3. Section [] - Gypsum board substrate.

1.2 REFERENCES

A. American National Standards Institute (ANSI):

1. A108.4 - Installation of Ceramic Tile with Organic Adhesives or Water Cleanable Tile Setting Epoxy Adhesive.
2. A108.5 - Installation of Ceramic Tile with Dry-Set Portland Cement Mortar or Latex Portland Cement Mortar.
3. A108.10 - Installation of Grout in Tilework.
4. A118.3 - Chemical Resistant, Water Cleanable, Tile Setting and Grouting Epoxy and Water Cleanable Tile Setting Epoxy Adhesive.
5. A118.4 - Latex-Portland Cement Mortar.
6. A118.6 - Ceramic Tile Grouts.

B. ASTM International (ASTM):

1. C97/C97M - Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone.
2. C99/C99M - Standard Test Method for Modulus of Rupture of Dimension Stone.
3. C170/C170M - Standard Test Method for Compressive Strength of Dimension Stone.
4. C370 - Standard Test Method for Moisture Expansion of Fired Whiteware Products.
5. C373/C373M - Standard Test Method for Water Absorption, Bulk Density, Apparent Porosity, and Apparent Specific Gravity of Fired Whiteware Products.
6. C482 - Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement Paste.
7. C484 - Standard Test Method for Thermal Shock Resistance of Glazed Ceramic Tile.
8. C501 - Standard Test Method for Relative Resistance to Wear of Unglazed Ceramic Tile by the Taber Abraser.
9. C648 - Standard Test Method for Breaking Strength of Ceramic Tile.
10. C650 - Standard Test Method for Resistance of Ceramic Tile to Chemical Substances.
11. C674 - Standard Test Method for Flexural Properties of Ceramic Whiteware Materials.
12. C880/C880M - Standard Test Method for Flexural Strength of Dimension Stone.
13. C1028 - Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method.
14. C1353/C1353M - Standard Test Method for Abrasion Resistance of Dimension Stone Subjected to Foot Traffic Using a Rotary Platform, Double-Head Abraser.

C. Greenguard Environmental Institute (GEI) - Certification Programs.

1.3 SUBMITTALS

A. Submittals for Review:

1. Samples:

- a. [3 x 3] [] x [] inch ultracompact sheet samples [in specified color.] [showing available colors.]
- b. [3/8 x 3/8 x 3] [] x [] x [] inch grout samples [in specified color.] [showing available colors.]
- c. [3] [] inch long joint sealer samples [in specified color.] [showing available colors.]

B. Sustainable Design Submittals:

1. Recycled Content: Certify percentages of post-consumer and pre-consumer recycled content.
2. Low-Emitting Materials: Certify volatile organic compound (VOC) content.



COSENTINO®

imagine & anticipate

SECTION 09 7505

ULTRACOMPACT WALL FINISHES - THIN SET

C. Closeout Submittals:

1. **Maintenance Data:** Include recommended cleaning materials and procedures, and list of materials detrimental to ultracompact sheet.

COSENTINO CENTRAL

Ctra. Baza - Huércal Overa, Km. 59 - 04850 Cantoria - Almería (España) Tel.

(+34) 950 444 175 - Fax (+34) 950 444 226



Silestone Quartz

Dekton Ultracompact

Sopos Granite



SECTION 09 7505

ULTRACOMPACT WALL FINISHES - THIN SET

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Minimum [10] [] years [documented] experience in manufacture of solid surfacing materials.

B. Mockup:

1. Construct wall finish mockup, [6] [] feet wide x [6] [] feet high.
2. Locate [where directed.] [].
3. Approved mockup may remain as part of the Work.

1.5 WARRANTY

A. Provide manufacturer's 10 year warranty against defects in materials and workmanship.

PART 2. PRODUCTS

2.1 MANUFACTURERS

A. Contract Documents are based on products by Cosentino USA, Inc. (www.dekton.com)

B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 MATERIALS - ULTRACOMPACT SHEET

A. Ultracompact Surfacing Sheet:

1. Product: Dekton by Cosentino.
2. Composition: Selected raw materials formed into flat slabs utilizing sinterized particle technology.
3. Collection: [Solid.] [Natural.] [Tech.]
4. Color: []. [To be selected from manufacturer's full color range.]
5. Surface finish: [Polished.] [Smooth matte.] [Textured matte.]
6. Thickness: [] mm.
7. Physical characteristics:
 - a. Moisture expansion: 0.02 percent average, tested to ASTM C370.
 - b. Breaking strength: 3963 lbf average, tested to ASTM C648.
 - c. Flexural strength: 10,828 psi average, tested to ASTM C674.
 - d. Water absorption: 0.03 percent average, tested to ASTM C373/C373M.
 - e. Static coefficient of friction (slip resistance): 0.80 dry and 0.66 wet, tested to ASTM C1028.
 - f. Wet dynamic coefficient of friction (DCOF): 0.57 average, tested to ANSI A137.1.
 - g. Resistance to wear: 182.2 average wear index, tested to ASTM C501.
 - h. Thermal shock resistance: No defects, tested to ASTM C484.
 - i. Bond strength: 423 psi average, tested to ASTM C482.
 - j. Specific absorption and gravity, tested to ASTM C97/C97M:
 - 1) Average percent of absorption per weight: 0.02 percent.
 - 2) Average density: 156 pounds per cubic foot.
 - k. Breaking module, tested to ASTM C99/C99M:
 - 1) Average dry breaking strength: 8128 PSI.
 - 2) Average wet breaking strength: 7490 PSI.
 - l. Flexural strength, tested to ASTM C880:
 - 1) Average dry flexural strength: 6840 PSI.
 - 2) Average wet flexural strength: 6205 PSI.
 - m. Resistance to compression, tested to ASTM C170/C170M:
 - 1) Average dry compression: 34,409 PSI.
 - 2) Average wet compression: 17,823 PSI.
 - n. Resistance to abrasion, tested to ASTM C1353/C1353M: 349 average abrasion index.
 - o. Resistance to chemical substances; tested to ASTM C650:



COSENTINO®

imagine & anticipate

SECTION 09 7505

ULTRACOMPACT WALL FINISHES - THIN SET

- 1) Acetic acid, 3 percent: No affect.
- 2) Acetic acid, 10 percent: No affect.

COSENTINO CENTRAL

Ctra. Baza - Huércal Overa, Km. 59 - 04850 Cantoria - Almería (España) Tel.

(+34) 950 444 175 - Fax (+34) 950 444 226



Silestone Quartz

Dekton Ultracompact

Sopos Granite

SECTION 09 7505

ULTRACOMPACT WALL FINISHES - THIN SET

- 3) Ammonium chloride, 100 g/L: No affect.
- 4) Citric acid solution, 30 g/L n: No affect.
- 5) Citric acid solution 100 g/L: No affect.
- 6) Lactic acid, 5 percent: No affect.
- 7) Phosphoric acid, 3 percent: No affect.
- 8) Phosphoric acid, 10 percent: No affect.
- 9) Sulphuric acid, 30 g/L: No affect.
- 10) Sulphuric acid, 100 G/L: No affect.
- 11) Chemical pool products: No affect.
- 12) Sodium hydrochlorite solution, 20 mg/L: No affect.
- 13) Hydrochloric acid solution, 3 percent: No affect.
- 14) Hydrochloric acid solution, 18 percent: No affect.
- 15) Potassium hydroxide, 30 g/L: No affect.
- 16) Potassium hydroxide, 100 g/L: No affect.

8. Certifications:

- a. GEI Greenguard Certified.
- b. GEI Greenguard Gold Certified.

2.3 MATERIALS - MORTAR

- A. Latex-Portland Cement Mortar: Granirapid System, Kerabond Keralastic T/Keralastic, or Kerabond Keralastic System by Mapei.**

**** OR ****

- B. Latex-Portland Cement Mortar: ANSI A118.4.**

***** OR *****

- C. Epoxy Mortar: ANSI A118.3.**

2.4 MATERIALS - GROUT

A. Grout:

2. Color: [_____] [To be selected from manufacturer's full color range.]

***** OR *****

B. Grout:

1. ANSI A118.6, [sanded.] [unsanded.]
2. Color: [_____] [To be selected from manufacturer's full color range.]

2.5 ACCESSORIES

A. Joint Sealer:

1. Mapesil 100 Percent Silicone Sealant by Mapei.
2. Volatile organic compound (VOC) content: Maximum [50] [] grams per liter.
3. Color: []. [To be selected from manufacturer's full color range.]

2.6 FABRICATION

- A. Cut panels accurately to required shapes and dimensions.**

B. Fabricate with [3/8] [] inch joints.



COSENTINO®

imagine & anticipate

SECTION 09 7505

ULTRACOMPACT WALL FINISHES - THIN SET

C. Cut flooring to fit at perimeter and around penetrations with maximum $\left[\frac{1}{4} \right]$ inch gaps.

COSENTINO CENTRAL

Ctra. Baza - Huércal Overa, Km. 59 - 04850 Cantoria - Almería (España) Tel.
(+34) 950 444 175 - Fax (+34) 950 444 226



Silestone Quartz
Dekton Ultracompact
Sopos Granite



SECTION 09 7505 ULTRACOMPACT WALL FINISHES - THIN SET

PART 3. EXECUTION

3.1 PREPARATION

- A. Clean surfaces to receive panels; remove loose and foreign matter than could interfere with adhesion.
- B. Remove ridges and projections. Fill voids and depressions with patching compound compatible with setting materials.
- C. Allowable Substrate Tolerances:
 - 1. Maximum variation in substrate surface: 1/8 inch in 8 feet.
 - 2. Maximum height of abrupt irregularities: 1/32 inch.

3.2 INSTALLATION

- A. Install panels in accordance with manufacturer's instructions.
- B. Set in [thin set mortar bed in accordance with ANSI A 108.5.] [epoxy mortar by spot application method in accordance with ANSI A108.4.]
- C. Install with [hairline] [(3/8) []] inch joints.
- D. Allow mortar to set for a minimum of 24 hours.
- E. Grout joints in accordance with ANSI A108.10; finish smooth and flush.
- **** OR ****
- F. Apply joint sealer to joints; finish smooth and flush.
- G. Provide control joints at changes in plane, changes in backup material, at joints between panels and adjacent construction, over joints in substrate, and at maximum [] feet on center. Fill with joint sealer; finish flush and smooth.

3.3 INSTALLATION TOLERANCES

- A. Maximum variation from level and plumb: 1/4 inch in 10 feet, noncumulative.
- B. Maximum variation in plane between adjacent pieces at joint: Plus or minus 1/16 inch.
- C. Maximum variation in joint width: Plus or minus 1/16 inch.

3.4 CLEANING

- A. Clean panels in accordance with manufacturer's instructions.

END OF SECTION