

# FINEO VCT INSTALLATION INSTRUCTION

## SECTION 09.65.19.00

### CSI 3-PART ARCHITECTURAL GUIDE SPECIFICATION: VINYL COMPOSITION TILE

#### PART 1. GERNERAL

##### 1.1. SUMMARY

- A. Section includes: Provide Vinyl Composition Tile flooring with accessories, as required for complete installation.
- B. Related Sections: Installation subsidiary materials
  - 1. Tile adhesion materials: Primers, adhesives, spray adhesives, double-side tapes
  - 2. Floor finishes: Cleaners, sealers, stripers, protection coats, gloss waxes,
  - 3. Wall bases: wall coves, wall covers
  - 4. Subfloor filler: Hydraulic cement based materials
  - 5. Tile trims, stair nosing, edge strips (moldings)

##### 1.2. REFERENCES

- A. ASTM F 1066: Specification for Vinyl Composition Floor Tile
- B. ASTM F 710: Practice for Preparing Concrete Floors and Other Monolithic Floors to receive Resilient Flooring
- C. ASTM F 1869: Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor using Anhydrous Calcium Chloride
- D. ASTM F 970: Standard Test Method for Static Load Limit
- E. ASTM E 84: Standard Test Method for Surface Burning Characteristics of Building Materials (
- F. ASTM E 662: Test Method for Specific Optical Density of Smoke Generated by Solid Materials
- G. ASTM E 648: Standard Test Method for Critical Radiant Flux of Floor-Covering Systems using a Radiant Heat Energy Source.
- H. KS M 3802: Korea Industrial Standard for PVC floor covering

##### 1.3. QUALITY ASSURANCE

- A. The VCT flooring product shall be installed in accordance with the manufacture's installation specification by experienced installer.
- B. Jib site inspection on subfloor condition, working circumstance and coordination with directly affecting VCT installation is required prior to installation.
- C. If working has special conditions, conduct field mock-up using approved materials and specified method of installation and obtain Architect's acceptance of mock-up prior to start of VCT installation.

##### 1.4. SITE CONDITIONS

- A. Install VCT resilient floor material after other construction work and finishing operations including piping, ceiling, painting, and electric work, have been completed.
- B. Maintain ambient temperatures within range not less than 13°C or more than 30°C during the following time periods:
  - 1. 48 hours before installation
  - 2. During installation
  - 3. 48 hours after installation

- C. Maintain the ambient relative humidity between 40% ~ 60% during installation
- D. Subfloor condition including moisture, level, hardness, crack and dirt must be checked and properly managed prior to VCT installation. Subfloor must be clean, smooth, leveled, structurally sound and free of oil, grease, paint, varnish, solvents and other extraneous materials.

#### 1.5. HANDLING AND STORAGE

- A. Store floor covering materials in area of application; allow two(2) days for material to reach same temperature as area.
- B. Though safety packing is applied by the manufacturer, VCT carton packing may be fragile and careful handling is recommended.  
Rough handling and exceeding high height storage can damage the product and can cause the injury and breakage.
- C. Stack cartons not more than 1.30 meter high nor allowable floor loading.
- D. Do not grab the banding only with bare hand. Hold entire box correctly with protective gloves.
- E. Store the materials in dry area with proper security and protection.

## PART 2. PRODUCT

### 2.1 MATERIALS

#### A. FINEO VCT (Vinyl Composition Tile)

Manufactured by **Yousung C&F**

121 Yeoksam-ro, Gangnam-gu, Seoul, Korea 06243

[www.fineofloors.com](http://www.fineofloors.com)

Phone +82-2-2189-2000 Fax +82-2-567-0861 E-mail [kevin@ys79.com](mailto:kevin@ys79.com)

1. Standards: Meet or exceed requirement of ASTM F 1066 Class 2, and KS M 3802
2. Wear layer thickness: 2.0mm, 2.5mm, 3.0mm
3. Size: 300x300mm, 450x450mm
4. Fire safety: Meet or exceed the standards
  - ASTM E 648: Critical Radiant Flux: >0.45W/cm<sup>2</sup>
  - ASTM E 662: Smoke Density: <450
  - ASTM E 84: Flame Spread: <25, NFPA Class A, UBC 1
5. Static load Limit: 150 PSI (10.54kg/ cm<sup>2</sup>) or higher
6. Slip resistance: R9 (>0.50)
7. Warranty: Limited five (5) year manufacturer's warranty
8. FINEO VCT is 100% virgin material used safe product; No post-consumer recycled contents inside.  
FINEO VCT is about 30% Pre-consumer recycle rate during production and 100% recyclable product.

#### B. Installation subsidiary materials

Subsidiary materials listed below should be recommended by VCT floor material manufacture, Yousung C&F, and accepted by architecture and proper authorizations.

1. Tile adhesion materials: Primers, adhesives, spray adhesives, double-side tapes
2. Floor finishes: Cleaners, sealers, strippers, protection coats, gloss waxes,
3. Wall bases: wall coves, wall covers
4. Subfloor filler: Hydraulic cement based materials
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## PART 3. EXECUTION

### 3.1. EXEMINATION

- A. Verify conditions of substrate are suitable for installation of resilient VCT floor covering material in accordance with manufacturer's installation instructions.
  1. Concrete to comply with ASTM F 710, to be free of materials which could interfere with adhesion of VCT floor covering
  2. Concrete must be neither crumbly nor flaky.
  3. Subfloor dryness to comply with result 5.0 LBS per 1,000sqft in 24 hours tested by ASTM E 1907/ASTM F 1869  
Calcium Chloride Moisture test standard or under 4.5% according to CM method without floor heating.
  4. Subfloor maximum Ph level 9 or less as measured by PH test paper.
  5. Subfloor surface must be flat, smooth and regular. Maximum variation must be within 3.0mm / 3 meter square.

6. Conduct installation only after improper conditions for resilient VCT installation are corrected and managed.

### 3.2. PREPARATION

- A. Subfloor must be absolutely level, dry, hard, smooth and structurally sound. It must be free of cracks and other irregularities and must not be contaminated with paint, plaster, oil, grease or any other substance which could affect adhesion. Cracks must be filled with appropriate filling materials.
- B. Comply with manufacturer's recommendation for preparation of substrate or ASTM F 710 Preparation of Concrete Slabs to Receive Resilient Flooring Specifications.
- C. Remove subfloor ridges and bumps and fill low spots, cracks, joints, holes and defect with proper subfloor filler.
- D. Mechanical removing contamination on the subfloor may cause damage and do not use acid or solvent to remove contamination. Improper marker, inks, paints, pens must not be used on tile or subfloor as they could bleed or stain the flooring material.
- E. Sweep and vacuum clean floor and apply, trowel, and float filler to leave smooth, flat hard surface.

### 3.3. INSTALLATION

- A. Install in accordance with manufacturer's installation instruction.
- B. All Installation subsidiary materials used must be those recommended by VCT floor material manufacture, Yousung C&F Co.,Ltd, and accepted by architecture or proper authorizations.
- C. Set the center point(s) and mark the line according to floor layout and color/pattern design.
- D. Move and open the floor tile cartons, enough to cover each area and ensure shade variation do not occur within any one area.
- E. Clean subfloor.
- F. Spread and trowel proper quantity adhesive instructed by adhesive manufacturer and apply open time instructed by adhesive instruction manual.
- G. Set VCT tile in place in accordance with floor design. Press with heavy enough smooth surface roller to ensure full adhesion.
- H. Fit flooring to walls. Columns, floor outlets and other appurtenances to produce net joints.

### 3.4. CLEANING, POLISHING AND PROTECTION

- A. Perform the after installation initial cleaning right after completing VCT installation
  - 1. Remove excess adhesive and scraps. Sweep and vacuum surfaces thoroughly.
  - 2. Repair the damages if any.
  - 3. Damp-mop surfaces to remove marks and soil.
  - 4. Apply floor protection and avoid heavy traffic until adhesive sets hard, minimum 48 hours.
- B. For surface protection, 2-3 coats of floor finishes in accordance with manufacturer's recommendations, architecture or proper authorities are recommendable.
- C. Protect resilient vinyl composition tile covered floor from marks, indentations, and other possible damages from construction, placement of equipment, furniture and fixtures with proper surface protection like hardboard paper, vinyl, plywood or etc.
- D. Furnish the owner with one or as agreed unbroken carton of each color or pattern of FINEO VCT for possible future repair work and maintenance instruction.

#### END OF SECTION

- Yousung FINEO VCT is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose.
- Black and thick vivid colors of VCT may be subject to scratch whitening, requiring more frequent maintenance.
- Improper subfloor and underlayment condition and dirt, chemicals, wetness, floor finish coat material, installation adhesive or tape and industrial traffic use may cause significant variation on actual performance of FINEO VCT.
- VCT is not recommended for use in exterior and the location where requires static and particle control.

For more information you may contact

