

ATDW-2350: FILLING COMPOUNDS/PROCEDURES

Cuyahoga Community College

Viewing: ATDW-2350 : Filling Compounds/Procedures

Board of Trustees:

March 2020

Academic Term:

Fall 2020

Subject Code

ATDW - Appld Ind Tech-Drywall Finish.

Course Number:

2350

Title:

Filling Compounds/Procedures

Catalog Description:

Instruction in history, types, and basic elements and procedures for using filling compounds including terminology, selection of filler, elements of drying, application of filler with trowel and broad knife, and finish sanding.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

Departmental approval: Admission to apprenticeship program.

Outcomes

Course Outcome(s):

Identify, select and mix the proper filler for a specified job.

Objective(s):

1. Identify the elements and characteristics of filling compounds.
2. Compare and contrast various types of fillers and discuss appropriate uses for each.
3. Select and mix a filler based on job specifications for an assigned lab project.
4. Explain the variables associated with drying of filling compound including water absorption, moisture, temperature, humidity, and ventilation.

Course Outcome(s):

Apply various types of filler coats with the four basic filling strokes using a trowel and broad knife.

Objective(s):

1. Demonstrate the four basic filling strokes using a trowel and broad knife.
2. Explain the purpose of the different types of filler coats.
3. Discuss techniques for maintaining the hand tools used to apply fillers.

Course Outcome(s):

Apply appropriate filling and use appropriate finishing techniques for various types of beads, butt joints, flats, fasteners, angles, and other surfaces using a trowel and broad knife.

Objective(s):

1. Demonstrate the procedure for filling vertical, horizontal, parallel, and intersecting beads.
 2. Demonstrate the procedure for filling butt joints and flats.
 3. Demonstrate the procedure for filling fasteners, angles, rounded and other surfaces.
 4. Demonstrate the procedure for finish sanding ceilings and walls.
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Methods of Evaluation:

1. Quizzes
2. Exams
3. Classroom participation
4. Demonstration of assigned projects

Course Content Outline:

1. Introduction
2. Filling compounds
 - a. General characteristics
 - b. Filler formulations
 - c. Terminology
 - d. Filling compound elements
3. Fillers in filling compounds
 - a. Binders
 - b. Thickeners
 - c. Additives
 - d. Casein
 - e. Vinyl filler
 - f. Pre-mix filler
4. Taping, topping, and all-purpose filler
 - a. Taping filler
 - b. Topping filler
 - c. All-purpose filler
 - d. Fast-set filler
 - e. Lightweight fillers
5. Mixing fillers
6. Drying
 - a. Water absorption and drying
 - b. Problems related to moisture and drying
 - c. Temperature and humidity
 - d. Drying times
 - e. Ventilation
7. Filling by hand (trowel and broad knife)
 - a. Maintaining hand tools
 - i. trowels
 - ii. knives
 - iii. hawks
 - b. Selecting the right filler
 - c. Testing for dry filler
 - d. Types of filler coats
 - i. first (loading) coat
 - ii. second coat
 - iii. third (polish) coat
 - iv. skim coat (level 5 finish)
 - e. Knife and trowel holding positions
 - f. Basic filling passes (strokes)
 - i. loading
 - ii. feathering
 - iii. removing the excess
 - iv. joining wet filler

- g. Rough sanding
- h. Filling beads
 - i. vertical
 - ii. horizontal
 - iii. parallel beads
 - iv. intersecting beads
- i. Filling butt joints and flats
- j. Filling fasteners, angles, rounded and other surfaces
 - i. fasteners
 - ii. angles
 - iii. rounded surfaces
 - iv. floating uneven butt joints on concave surface
 - v. flats on curved surfaces
 - vi. rounded angles
- k. Finish sanding
- l. Final inspection

Resources

"Filling Compounds"

"Filling By Hand (Broad Knife)"

"Filling By Hand (Trowel)"

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