

SECTION 02 41 23 - RESILIENT FLOOR TILE AND MASTIC REMOVAL

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes
 - 1. Removal of existing non-asbestos containing resilient floor tile.
 - 2. Recycling of existing non-asbestos containing vinyl composition tile (VCT).
 - 3. Removal of existing non-asbestos containing mastic.
- B. Refer to Division 02 Section "Asbestos Abatement" for removal and disposal of asbestos containing resilient floor tile and mastic.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Removal Conference: Conduct conference at Project site.
 - 1. Inspect and discuss condition of floor tile and mastic to be removed.
 - 2. Review and finalize tile and mastic removal schedule and verify availability of materials, personnel, equipment, and facilities needed to make progress and avoid delays.
 - 3. Review areas where existing construction requires protection.
- B. Scheduling:
 - 1. Coordinate scheduling with Owner to meet project completion dates.
 - 2. Remove all floor tile prior to removal of mastic.

1.3 QUALITY ASSURANCE

- A. Remove floor coverings and adhesive according to recommendations in RFCI-WP and its Addendum.
 - 1. Remove residual adhesive and prepare substrate for new floor coverings by one of the methods recommended by RFCI.

1.4 SITE CONDITIONS

- A. Hazardous Materials: The Owner has tested the resilient floor tile and mastic for asbestos containing materials (ACM). The Owner will provide documentation of floor tile and mastic testing to Contractor.
- B. Do not block or hinder use of building by Owner and Customers.

- C. Ventilation Control: Provide temporary ventilation required by mastic removal material and construction activities for floor tile and mastic removal. Select equipment that will not have a harmful effect on completed or existing installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Maintain a sufficient quantity of materials and equipment to assure continuous and efficient work throughout the duration of the Work.
- B. Polyethylene Sheet: ASTM D 4397, 6 mils (0.15 mm) thick.
- C. Mastic Removal Material:
 - 1. Provide a non-flammable low odor or no odor material meeting or exceeding the VOC (volatile organic compound) level requirements of the authority having jurisdiction.
 - 2. Flash Point: Above 140 deg. F (60 deg. C).
 - 3. Restrictions:
 - a. Do not use soybean based or any other oil based mastic remover. These types of mastic remover have harmful effects to colored or stained polished concrete floors.
 - b. Do not use mastic removers that have harmful odor or are otherwise offensive to employees or customers. Schedule removal while facility is closed or during times of low occupancy.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Site Access and Temporary Controls: Conduct floor tile and mastic removal to ensure minimum interference with customers and employees.
- B. Temporary Facilities: Provide temporary barricades and other protection required to restrict customer and employee access and to prevent injury to people and damage to adjacent areas.
- C. Cover existing walls, fixtures or shelves with polyethylene sheet to a height of at least 3 feet (1 m) above finish floor to protect existing walls, fixtures or shelves during the tile and mastic removal Work.

3.2 REMOVAL OF RESILIENT FLOOR TILE

- A. Do not remove VCT flooring until asbestos report has been obtained from Owner.
- B. Remove floor tile intact, as much as possible using mechanical or manual methods.

- C. Remove demolished tile from the building as demolition progresses. Do not allow demolished tile to remain unattended in the store.

3.3 RECYCLING OF VCT MATERIALS

- A. General: It is the Owner's intent to recycle floor tile on this Project. If the Contractor deems that it is not economically feasible to recycle floor tile, Contractor must receive written approval from the Owner to delete recycling from the project.
- B. Definitions.
 - 1. Disposal (If recycling is not performed): Comply with requirements of authorities having jurisdiction.
 - 2. Recycling: Recovery of VCT for subsequent processing in accordance with the recycling program outlined below.
- C. Recycling program: Floor tile will be recycled via a manufacturer sponsored program as follows.
 - 1. Approved Recycled Ceiling and Floor Tile Recipient.
 - a. Armstrong World Industries
 - 1) Phone: 1-877-276-7876
 - 2) Website: www.armstrong.com/environmental
 - 2. A representative of the approved recycled tile recipient must approve the material for reclamation.
 - 3. Approved floor tile material: 12 inch (305 mm) by 12 inch (305 mm) vinyl composition tiles.
 - 4. Materials not approved for recycling:
 - a. Floor tile from buildings built prior to 1990 regardless of previous abatement and/or subsequent replacement of floor tile.
 - b. Asbestos containing floor tiles.
 - c. Floor tiles installed with adhesives containing asbestos.
 - d. Floor tiles being removed from a location undergoing any type of asbestos or hazardous abatement.
 - e. Wet, moldy or weathered floor tiles.
 - f. Floor tiles or gaylord boxes/pallets which contain debris (garbage, construction waste).
 - g. Floor tiles not packaged according to packaging procedures set forth below.
 - h. Floor tiles or roll-off bins or containers, used by demolition and construction specialists, which contain debris (garbage, construction waste).
 - i. Vinyl composition tiles containing aluminum oxide grit as present in slip retardant tiles.
 - j. Floor tile being reclaimed that may have come into contact with asbestos containing material, hazardous waste materials or special waste.

- D. Preparation of waste: Prepare and maintain recyclable waste materials according to recycling or reuse facility requirements. Maintain materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process.
- E. Procedures: Separate recyclable waste from other waste materials, trash, and debris. At Contractor's option, separate recyclable waste by type either at Project site or in a single container that will be separated later at the recycling facility. Verify with Owner to determine if site constraints will prohibit separating recyclable waste at Project site.
 - 1. Provide appropriately marked containers or bins for controlling recyclable waste until removed from Project site.
 - 2. Remove recyclable waste from Owner's property and transport to recycling receiver or processor.
 - 3. Comply with Division 00 "General Conditions" for controlling dust and dirt, environmental protection, and noise control.
- F. VCT Recycling Procedures.
 - 1. Recycling of VCT floor tile is to be accomplished as outlined below in accordance with Armstrong World Industries.
 - a. Register this floor with the Armstrong Flooring Recycling Center.
 - b. Remove the approved VCT and dispose of in the supplied cardboard Gaylord Boxes.
 - c. Contact Armstrong when a full truckload, 24 Gaylords, is ready for pick-up.
 - d. Gaylord Boxes and Pallets must be kept dry.
 - e. Colors must be separated into different Gaylord Boxes when diverse.
 - f. No wood, metal, construction debris, trash or hazardous material of any kind can be included.
 - g. Materials should be placed in a roll-off container and covered.
 - h. Materials should not be loaded above the top of the Gaylord Boxes.
 - i. Each Gaylord Box should have visible Armstrong RA label attached.

3.4 REMOVAL OF MASTIC

- A. Preparation:
 - 1. Before application of mastic remover, inspect the floor for any drains, cracks, fractures, or penetrations and seal properly.
- B. Mastic Removal:
 - 1. Apply mastic remover in accordance with manufacturer's printed instructions and in accordance with authorities having jurisdiction.
- C. Liquefied Mastic Pick-up:
 - 1. Using absorbent, pick up the liquefied mastic and dispose of in accordance with Federal, State, and Local regulations.

D. Final Rinse of Surfaces:

1. Mop and rinse surfaces with **110 deg. F (43 deg. C)** water and deodorizing detergent.
2. Dispose of mop/rinse water down a sanitary drain.

3.5 DISPOSAL OF DEMOLISHED MATERIALS

A. General: Dispose of demolished materials as required by authorities having jurisdiction.

1. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

3.6 CLEANING

A. Clean adjacent areas of dust, dirt, and debris caused by floor tile and mastic removal operations. Return adjacent areas to condition existing before floor tile and mastic removal operations began

3.7 PROTECTION

A. At the end of each workday, tape the edge of non-removed tile with safety yellow tape as a precaution to tripping.

END OF SECTION 02 41 23

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