



CASE STUDY

LAUNDRY / MECHANICAL ROOM REHAB

COMPANY

Citadel Floor Finishing Systems

OBJECTIVE

Beautify an existing laundry / mechanical room by removing old paint from the floor and applying a decorative chip system. Smell and Flammability were concerns for this interior application so materials were chosen that give off little to no odor (ZERO VOC'S).

REPAIRS REQUIRED

Top course of block foundation had open cores that needed to be filled to create a usable shelf. The intersection where the foundation wall met the floor was rounded out using Speedcove 1" radius cove base

MATERIALS REQUIRED

CFFS Fortification Formula
CFFS Polyurea-350 and color tint
CFFS PG-100
CFFS Decorative Chip – ¼" Basil
Speedcove 1" radius cove base

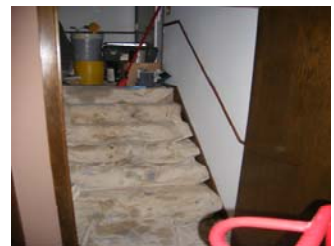
TIMELINE

One day installation – one trained installer
Total time on-site: 8 hours (including removal of washer / dryer and utility sink.
Total cost of materials used: \$307.00
Total bid price including repairs: \$1,350.00

CONDITIONS

Interior Installation -- 65°F

FRAME BY FRAME INSTALLATION PICTURES





All concrete preparation was done using the Metabo 5" hand grinder with dust shroud and double row cup wheel mostly due to the small size of the room being coated and the need to grind the vertical block foundation wall. The grinder was hooked up to a Pulse-Bac vacuum and a high-volume fan was placed in the open window to allow any airborne dust to escape. The grinder was used to round off the top corner of the concrete block allowing for seamless chip coverage and a better overall finished coating.



The open cores of the block foundation wall were filled with fiberglass insulation and then overfilled with CFFS Fortification Formula. The excess was ground off and the final result was a seamless, monolithic shelf that can be used for storage. The rounded edge really adds a nice touch to the finish.



Speedcove 1" radius cove base was used to create a seamless transition from the floor to the block wall and eliminate an intersection that could possibly harbor bacteria and mold in a normally cold and damp area of the house. This will also help with cleaning as any water that is used will simply run down the wall and find its way to the floor drain under the utility sink. The installation process was fast and easy using a polyurethane adhesive and standard chop saw with a fine tooth blade. There was an area that could not be ground down to a perfect 90° angle (near the utility sink) so the Speedcove had to be terminated to meet the existing contours and transition smoothly. This was done using a utility knife to cut and trim it to fit properly. The end result was easy to coat and basically invisible to the naked eye.



Once all the preparation was complete and the Speedcove was in place the floor was thoroughly vacuumed and readied for coating. Because this was a one-man installation, I chose to use Polyurea-350 Winter blend to retain workability but still get a quick turnaround time. I mixed "half batches" consisting of 16 oz. Part A, 32 oz. Part B and the corresponding color tint. It was applied using brushes, 3" and 9" rollers again due to the lack of space in the small room. The top of the block wall was coated first, continued down the face of the wall, over the Speedcove and onto the floor. The hardest part of the coating was cutting in around all the utilities (furnace, water heater, water softener) and keeping within the chipping window. The entire room was "wet-out" before throwing any chip, which was done on spiked shoes. The long open window of the Polyurea-350 is what makes this at all possible.



Once cured all the loose chip was accumulated for re-use and the floor was scraped in both directions to ensure a flat surface for clear coating. Because of the size of the room, the topcoat was roll applied as opposed to the standard squeegee and backroll technique. I made sure to roll the coating in one direction and then come back across it to eliminate roller marks, cutting in edges as I went. PG-100 was used in this application for its non-flammable characteristics and total lack of smell, making it great for interior applications. It creates a seamless coating that holds up better than tile or VCT in basements.

