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Epoxy & fiberglass flooring, seamless fiberglass wall systems, sealers, high performance coating systems, and industrial cleaners

System bulletin Mozaik epoxy chip floors

the MOZAIK epoxy/chip system is an easy system to install if you keep the tips below in mind.

SURFACE PREPARATION CONCRETE

Moisture tests should always be done. Rates below 4 lb/24hr/1000 sqft are acceptable.

Concrete should be thoroughly cleaned and etched and a suitable epoxy primer applied. All cracks, holes and joints should be filled ahead of time with #3100 or #3100 Patchit epoxy so as to give a smooth surface over which to install the floor.

PLYWOOD

any plywood used should be at least 5/8' thick and smooth one side construction. It should be glued and screwed to the underlying substrate. Screws should be at least 1" drywall type installed on 6" centers along the plywood face and 2" centers 1" in from the edges. Fill all cracks, joints and holes with #3100 or #3100 Patchit epoxy and apply a suitable epoxy primer.

CHIP BLEND

Nearly any chip blend can be constructed. We recommend that a least 50% of the blend be basic white. Two or three other colors can be blended with the white to give a floor color. After the chips are blended, in a large plastic bag, we recommend that they be gently sived over a screen so as to remove fines and broken chip dust.

FLOOR CONSTRUCTION

Apply the #3100 CHIP WHITE with a 1/8" V notch trowel and back roll slowly and allow the epoxy to smooth out. As in the chip blends nearly any basic color epoxy can be used though we recommend white for light reflection and While wet sprinkle the ships onto the epoxy. Let the epoxy harden and sweep or vacuum off the loose chips. After these are off very lightly scrap the chips with the edge of a trowel. Vacuum or sweep off the loose chips again.

EPOXY FINISH

With a roller apply one coat of #4100 LVS and into it toss a final layer of ships – probably 25% of the first chip amount- and even off the chip layer by laminating these in while rolling the #4100. When the #4100 cures, sand the surface- 100 to 150 grit sand paper works well- to remove lumps and ship edges, sweep off the crumbs and apply two to three THIN coats of #4100 each at 350 sqft/gal until the final surface texture desired is attained.

URETHANE FINISH

Laminate in a second layer of chips with #2200 ALIPHATIC URETHANE to even off the floor pattern. Once the urethane is cured sand the lumps and chip edges off- 100-150 grit sand paper works well. Apply three successive coats of #2200 at 350 sqft/gal., each within 24 hours of the last. Use of a window type squeegee does a nice job as does a very short nap roller. Keep direct breeze off the floor as this can cause bubbles.

(blue sections all require clean shoes and pants or dirt contamination of the surface is likely)

FINISHING UP

it's a good idea to install metal, wood or rubber thresholds as appropriate. Caulking around the edge of the surface – we recommend PFAC polyurea caulk- is a good idea also. Installing base after the floor is done is fairly usual.