

GENERAL

Armor-Rez CQ 150 is a 1/8th inch thick decorative color quartz flooring system with a chemical resistant epoxy topcoat. This system offers excellent abrasion, impact and chemical resistance. Armor-Rez CQ150 is ideal for locker rooms, restrooms, laboratories and clean rooms.

MOISTURE VAPOR EMISSION TESTING

All interior concrete floors are subject to possible moisture vapor emission and/or excessive alkalinity that could ultimately cause coating failure. Prior to application, calcium chloride moisture testing should be conducted according to ASTM 1869-04.

SURFACE PREPARATION

Surface preparation is vital to the long-term success of the installation. All surfaces to be coated must be clean, sound and free of mastics or other contaminants that may interfere with bonding. The concrete must be shotblasted or diamond ground to achieve a CSP 2-3. Properly prepared concrete must have a texture similar to 80-120 grit sandpaper.

1/4 by 1/4 inch key ways must be cut at all termination points and around all drains.

Small depressions, cracks, holes and control joints should be filled with Epoxy 300 Flex Paste or Epoxy 400 thickened with fumed silica. Large holes should be filled with an epoxy mortar consisting of 4-5 parts aggregate (30 mesh silica or graded trowel sand) to 1 part Epoxy 400. This mortar must be placed directly over a primer coat of Epoxy 400 while the primer is still wet.

APPLICATION OF THE 1ST BASE COAT & BROADCAST

Mix Epoxy 400 clear 2 parts A to 1 part B. Blend the two parts together for 2 minutes with a low-speed drill. Once the material is completely mixed, immediately pour it onto the floor in usable ribbons.

Using a flat trowel or squeegee, spread the material at 100 square-feet-per-gallon. Once the material has been spread to the proper thickness, back roll it immediately using a 3/8th to 1/2 inch nap roller to remove any notch lines.

Allow the base coat to level for 10-15 minutes, and then broadcast colored quartz to refusal at a rate of .5 pounds-per-square-foot. Allow base coat to cure for 6-12 hours prior to removing the excess quartz.

APPLICATION OF 2ND BASE COAT & BROADCAST

Once all of the loose quartz has been removed and the floor is vacuumed, mix Epoxy 400 clear 2 parts A to 1 part B. Blend the two parts together for 2 minutes with a low-speed drill. Once the material is completely mixed, immediately pour it onto the floor in usable ribbons.

Using a flat trowel or squeegee, spread the material at 100 square-feet-per-gallon. Once the material has been spread to the proper thickness, back roll it immediately using a 3/8th to 1/2 inch nap roller to remove any notch lines.

Allow the base coat to level for 10-15 minutes, and then broadcast colored quartz to refusal at a rate of .5 pounds per-square-foot. Allow base coat to cure for 6-12 hours prior to removing the excess quartz.

APPLICATION OF EPOXY 600 CLEAR TOPCOAT

Once all of the loose quartz has been removed and the floor is vacuumed, mix Epoxy 600 clear 2 parts A to 1 part B. Blend the two parts together for 2 minutes using a low-speed drill.

Once the material is completely mixed, immediately pour it onto the floor in usable ribbons. Using a flat trowel or squeegee, spread the material at 80-150 square-feet-per-gallon. Once the material has been spread to the proper thickness, back roll it immediately using a 3/8th - 1/2 inch nap roller to remove any squeegee or trowel marks to ensure a uniform coverage.

The application rate of the topcoat will affect the finished texture of the floor. Therefore, special care must be taken during this step to ensure that proper texture is achieved.