Epoxy Quartz Double Broadcast System

Description: Endurosil Epoxy Broadcast Quartz System is a 100% solids epoxy combined with Colorquartz Crystals. The floor is a high build system that is impact and chemical resistant. This flooring option can have a thickness of 1/8th inch to 1/4th inch. The floor can have a textured non-slip finish or smooth and flat finish.

Uses: Epoxy Broadcast Quartz is a seamless flooring option in commercial kitchens, restaurants, restrooms, garages and service areas where resistance to medium to heavy impact impact and abuse is necessary. The system can achieve a nominal thickness of 1/8th to 1/4th inch.

Advantages: 100% Solids, Chemical Resistant, Abrasion Resistant, Low Odor Required

Materials: EP-300 Epoxy Patch, EP-1000 100% Solids Epoxy

Required Tools: V-Knotch Squeegee, Roller and Roller Frames, Jiffy Mixer

Optional Materials: EP-500 Waterbased Epoxy Primer, EP-2000 Polyaspartic Topcoat, EP-300 Joint Compound.

Substrate Preparation

Substrate Inspection: The surface must be structurally sound. The surface must be dry and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion. The surface must be porous or rough enough to allow the product to adhere to surface. A minimum of 28 days cure is required on all concrete surfaces unless the installer utilizes EP- 500 Waterbased Epoxy Primer.

Subtrate Preparation: Clean all cracks and joints using a concrete saw. Prepare the concrete surface to a profile equal to about a 50 grit sandpaper. The recommended method of profiling the concrete is by grinding, shot blasting or scarifying the surface.

Moisture: All concrete should be tested for moisture before applying a seamless coating. Water vapor transmission through on-grade concrete slabs may result in the failure of the epoxy floor (either the lifting of the dried film or the improper curing of the material). If moisture emission exceeds 4 pounds per 1000 square feet contact Endurosil prior to application.

Product Application

Joint and Crack Fill: Utilize EP-300 Epoxy Patch Paste to fill all joints and cracks prior to the application of the flooring system. Mix 2 parts of A to 1 part of B. Ensure that the paste is sufficiently mixed prior to use. Install the mixed paste in the joints or cracks using a putty knife or trowel. The installer may also use alcohol to help smooth the material. The EP-300 Epoxy Patch Paste may also be used to install a covebase.

Standard Primer: Mix 2 parts of A and 1 part of B of EP-1000, ensuring that the product is properly mixed. You can also use EP-500 when concrete cure and water emission is a concern. Apply the product at a rate of approximately 250 to 300 square feet per gallon using a roller and brush.

1st Broadcast Coat: Mix 2 parts of A and 1 part of B of EP-1000, ensuring that the product is properly mixed. Install the product using a V-knotched squeegie at a rate of 25 to 100 square feet per gallon. Backroll the wet product to level out any imperfections. Broadcast Colorquartz Crystals until refusal (until it is dry).

2nd Broadcast Coat: Mix 2 parts of A and 1 part of B of EP-1000, ensuring that the product is properly mixed. Install the product using a V-knotched squeegie at a rate of 25 to 100 square feet per gallon. Backroll the wet product to level out any imperfections. Broadcast Colorquartz Crystals by 3M until refusal (until it is dry).

Seal Coat: Grind floor and repair imperfections in the surface. Mix 2 parts of A and 1 part of B of EP-1000 100% solids epoxy (transparent) and apply at a rate of 150 to 200 square feet per gallon using a flat or v knotched squeegie and back rolling to smooth the epoxy (for a textured finish). If you would like a smooth surface apply Seal Coat at a coverage rate of 25 to 100 square feet per gallon.

Top Coat: Install EP-1000 using ¼ nap roller at a coverage rate of 250 to 300 square feet per gallon.

Optional Top Coat: Install EP-2000 Polyapartic using ¼ nap roller at a coverage rate of 300 to 400 square feet per gallon.