

Technical Bulletin # 414C

Product Description

IMPAX DecoBlend Quartz is a heavy duty, decorative flooring system that combines clear self leveling epoxies with multi-colored quartz aggregates. Installed as a "broadcast" type application, the system is designed for use in cafeterias, restrooms, lobbies, pedestrian walkways, sanitary manufacturing environments or any other area where a durable, attractive finish is required.

Floor Application

*Note – Refer to all applicable technical bulletins for more specific product information.

1. Properly prepare all surfaces to be coated. Refer to Floor Surface Preparation, Bulletin #400.
2. Concrete substrate must be smooth and free of holes, cracks, gouges and all other imperfections prior to applying DecoBlend Quartz.
3. Apply IMPAX 3300LV-N Primer at 10 mils DFT (150 sq. ft. / gal.), as described in Technical Bulletin 404. It is critical that the base system be applied at a uniform thickness over the entire floor area. Continually check film thickness using a wet mil gauge. Prime entire area prior to proceeding with broadcast.
4. Broadcast blended quartz into wet basecoat at the rate of 1/2 lb./sq.ft. Using spike/golf shoes, the applicator should seed floor to saturation until no wet spots remain. After seeding, the applicator should not walk into seeded area if at all possible. Quartz aggregate should be thrown or blown up in air and allowed to settle naturally into the wet film. Do NOT allow broadcast to interfere with application of epoxy.
5. After 6-8 hrs. set-up time, sweep and vacuum all loose, excess quartz. Do not reuse swept quartz with previously blended quartz. Use plastic covers on shoes.
6. Apply intermediate coat of IMPAX 650 Clear at 20-25 mils (60-75 sq.ft./gal.), using a smooth squeegee or trowel and back rolling with a 3/8" soft woven phenolic core roller. Repeat Step #4 broadcast instructions. Allow 6-18 hrs. set-up time.
7. After intermediate coat has set-up, repeat Step #5.
8. Using stone grinder (terrazzo type) or floor disc sander (60-80 grit), lightly grind or sand entire floor area to remove any peaks and imperfections and leave as smooth a profile as possible. Vacuum all loose quartz.
9. Apply final coat(s) of IMPAX 650 Crystal Clear. To determine the wet mils to apply, follow these guidelines:
 - A non-slip profile requires 15-25 mils DFT (60-100 sq. ft. / gal) and this non-slip profile can be accomplished in one step.
 - If a smooth finish is desired, it is recommended to apply two finish coats at 15-25 mils DFT per coat. Lightly abrade the finish in between coats to knock down any remaining peaks or imperfections.
10. For highly abrasion resistant finish, a 3-4 mil (350 sq. ft./gal) coat of IMPAX HPU High Performance Urethane clear may be applied after 12 hrs. and within 48 hrs, see Technical Bulletin 450 for more details.
11. Allow 24 hrs. before area is put back into light duty service, 72 hours for full service and 5 days for full chemical cure.

Coving Application

A radius cove is installed to create a smooth transition from the floor to the wall without any sharp corners or crevices where bacteria or dirt may accumulate. Generally, the cove is installed up to a height of 4" above the floor, but the height may vary from 2" up to as much as 8". Several options (please see step 4) are available for creating a smooth and even edge at the top of the cove and for tying into the broadcast on the floor. The cove is trowel applied on, with a finished thickness of 1/8" at the top.

1. See preceding steps #1 and #2.
2. Mix one gallon of IMPAX 650 Clear for two minutes and split evenly in two five-gallon cans. Add to this mix approximately 2 quarts of fumed silica (for example Cab-O-Sil) and mix until the silica is thoroughly blended with the liquids. Now add approximately 4 quarts of DecoBlend quartz and mix until all quartz is wet-out. The final mixing ratio of IMPAX 650 liquids, fumed silica and quartz will depend on the desired consistency (or slump) of the mix. The goal is to create a mix which is easy to trowel, yet is stiff enough to hang on the wall. You may have to adjust the mix on the job site to get the desired slump.
3. Apply the finished trowel mix onto the wall using a standard 3" x 12" steel trowel. Take care to keep an even and smooth edge along the wall. Corners and edges along doors or other openings will take longer to finish neatly. Finish cove using appropriate coving trowel. Denatured alcohol can be sprayed onto the cove or trowel to prevent sticking.
4. Installing cove:
 - A. Installing cove with cove strip: If a 1/8" cove strip is required, the finished thickness at the top will be 1/8", going wider at the bottom as the radius is created. The bottom of the cove, where it meets the broadcast floor, can also be finished with a 1/8" cove strip. Use hot-melt glue or similar material to attach the cove strip to the wall and the floor. If cove strip is used at the floor, the cove should be brought out from the wall approx. 2" and the floor should be broadcast so as to minimize the edge (or lip) between the bottom of the cove and the floor.
 - B. Installing without covestrip: If a covestrip is not required, the top of the cove normally is finished with a rounded top edge (although a square top may also be used.) First apply masking tape or duct tape at the desired height of the cove, then apply the trowel mix onto the wall and finish to an even and level top edge. The thickness of the cove may vary between 1/8" to 1/4", depending on the trowel used. Where the cove is brought out onto the floor, it should be tapered to minimize the transition between the cove and the broadcast. (If a square edge is desired, take great care to keep this edge level and even.)
5. Apply the finish coat of IMPAX 650 Crystal Clear to the cove at the same time as the finish coat(s) are applied to the broadcast floor. If some loose quartz granules or light unevenness is apparent on the cove, lightly stone or sand the cove before applying the finish coat.

If the cove is 4" high, one gallon of IMPAX 650 will cover approximately 60 linear feet of 1 1/4" thick cove or approximately 100 linear feet of 1/8" thick cove.

Cove strips may be purchased from various distributors. Call the manufacturer for a distributor in your area: Manhattan American Terrazzo Strip, Staley, NC 910-622-4247

Normally, the size used is 1/8" by 5/8", 18 gauge zinc strips, 6 ft. long.

Date

07/2006

General: Every reasonable effort is made to insure the technical information and recommendations on these data pages are true and accurate to the best of our knowledge at the date of issuance. However, this information is subject to change without notice. Prior versions of this publication are invalid with the release of this version. Products and information are intended for use by qualified applicators that have the required background, technical knowledge, and equipment to perform said tasks in a satisfactory manner. Consult your local distributor for product availability, additional product information, and technical support.

Warranty: ITW Polymer Technologies, a division of Illinois Tool Works Inc., warrants that its products meet their printed specifications. This is the sole warranty. This warranty expires one year after product shipment.

Warranty Claims: If any product fails to meet the above, ITW Polymer Technologies will, at its option, either replace the product or refund the purchase price. ITW Polymer Technologies will have no other liability for breach of warranty, negligence, or otherwise. All warranty claims must be made in writing within one year of the date of shipment. No other claims will be considered.

Disclaimer: ITW Polymer Technologies makes no other warranty, expressed or implied, and specifically disclaims any warranty of merchantability or fitness for a particular purpose.

Suggestions concerning the use of products are not warranties. The purchaser assumes the responsibility for determining suitability of products and appropriate use. ITW Polymer Technologies' sole liability, for breach of warranty, negligence or otherwise, shall be the replacement of product or refund of the purchase price, at ITW Polymer Technologies' election. Under no circumstances shall ITW Polymer Technologies be liable for any indirect, incidental or consequential damages.

Modification of Warranty: No distributor or sales representative has the authority to change the above provisions. No change in the above provisions will be valid unless in writing and signed by an officer or the Technical Director of ITW Polymer Technologies. No term of any purchase order shall serve to modify any provision of this document.

Mediation and Arbitration: If any dispute arises relating to products or product warranties, either the purchaser or ITW Polymer Technologies may a) initiate mediation under the then current Center for Public Resources (CPR) Model Procedure for Mediation of Business Disputes, or b) initiate a non-binding arbitration under the rules of the American Arbitration Association for the resolution of commercial disputes.