

HYBRI-FLEX EC

IMPORTANT! Read these instructions carefully several days prior to starting your work. Seek answers to any questions you may have before you begin. DUR-A-FLEX, Inc. maintains a Technical Staff that will be glad to answer your questions and give you advice pertaining to your particular installation.

SYSTEM OVERVIEW

HYBRI-FLEX EC is a decorative chip system composed of a 1/8" POLY-CRETE MD SL body coat with a decorative chip broadcast. It uses a DUR-A-GLAZE #4 broadcast coat, a DUR-A-GLAZE #4 grout coat, and either a POLY-THANE #2 HIGH SOLIDS or ARMOR TOP topcoat yielding a total nominal system thickness of 3/16".

SURFACE PREPARATION

Surface should be profiled, clean, dry, oil free and sound. Shot Blasting is the preferred preparation method. Please refer to the master Surface Preparation Guide on our website for more information. Never feather edge HYBRI-FLEX EC, always terminate in a keyway groove at doorways, drains and exposed edges.

MOISTURE CONCERNS

Please refer to the Floor Evaluation Flow Chart in the Contractor's Center of our website for a step-by-step process to determine the condition of the concrete.

MIXING AREA

Select a convenient mix area and protect the surface from spillage by covering with a sheet of plastic and a layer of cardboard. Be generous with the amount of space allocated for this function. The more comfortably your mixer works, the less likely you are to have a "mix error". Please refer to our Mix Station video on our website for more information.

STORAGE CONDITIONS

POLY-CRETE MD SL must be stored dry. Exposure of the aggregate to moisture for an extended period will cause lumps. Do not allow resins to freeze. The shelf life is 6 months from the ship date in the original unopened container. Products must be stored in temperatures no less than 60°F and no greater than 85°F.

JOINT GUIDELINES

Refer to the Joint Guidelines for complete details on our website.

APPLICATION METHOD

Proper planning is essential for satisfactory appearance of the finished floor. Lay out installation in sections to allow full width to be finished in 20 minutes (@70°F) or less to assure absence of placement lines.

PRIMER

In most applications HYBRI-FLEX EC does not require a primer. However, very porous substrates should be primed first with POLY-CRETE TF.

- A. POLY-CRETE TF is supplied in pre-measured units consisting of one pail of resin, one container of hardener and one bag of aggregate (powder). Pour the POLY-CRETE TF resin into a 2-gallon pail; scrape bottom and sides with a mix stick to assure that all material is transferred to the mix bucket. Use the Poly-Crete pail to scrape the mix stick, and never scrape the mix stick on the side of the mix pail. Measure 1oz of POLY-CRETE HF ACCELERATOR and add it to the mix bucket. Pour the entire POLY-CRETE TF hardener into the center of the mix bucket. Using a 1/2" 850 RPM drill with a 4" dispersion blade, mix the resin and hardener for 30 seconds. Slowly add the POLY-CRETE TF aggregate to the resin and hardener and mix at 850 RPM for 1 minute. **PRODUCT MUST BE MIXED WITH A 4" DISPERSION BLADE AND A 1/2" VARIABLE SPEED 850 RPM DRILL. *DO NOT ADD HARDENER TO RESIN UNTIL BATCH IS READY FOR MIXING*. *FAILURE TO ADD ALL POLY-CRETE MD SL WILL RESULT IN IMPROPER CURE OF MATERIAL***



- B. Pour the entire batch onto the floor in a 4 to 6" ribbon. Using an 18 inch 3/8" nap roller, roll the material at 60 Sq. Ft. per kit. Cross roll the material to ensure there are no puddles. Allow to cure for 4 hours @ 70°F.

BASECOAT

- C. POLY-CRETE MD SL is supplied in pre-measured units consisting of one pail of resin, one container of hardener and one bag of aggregate (powder). Pour the POLY-CRETE MD resin into a metal 5-gallon pail; scrape bottom and sides with a mix stick to assure that all material is transferred to the mix bucket. Use the Poly-Crete pail to scrape the mix stick, and never scrape the mix stick on the side of the mix pail. Pour the entire POLY-CRETE MD hardener into the center of the mix bucket. Using a 1/2" 850 RPM drill with a 4" dispersion blade, mix the resin and hardener for 30 seconds. Slowly add the POLY-CRETE MD SL aggregate to the resin and hardener and mix at 850 RPM for 1 minute. **PRODUCT MUST BE MIXED WITH A 4" DISPERSION BLADE AND A 1/2" VARIABLE SPEED 850 RPM DRILL. *DO NOT ADD HARDENER TO RESIN UNTIL BATCH IS READY FOR MIXING*. *FAILURE TO ADD ALL POLY-CRETE MD SL WILL RESULT IN IMPROPER CURE OF MATERIAL***
- D. Pour the entire batch onto the floor and spread with a 1/2 V notched squeegee. Each kit of POLY-CRETE MD SL will yield 55 Sq. Ft. per kit. Check squeegee every 1000

sq feet for wear. Have new squeegee ready to avoid interruption in the process.

- E. Use a flat trowel to cut in edges, drains and around equipment. For continuity of finish and to ensure that new batches of material are blended together without transition lines, use even pressure and trowel at a low angle using a sweeping motion.
- F. To remove squeegee lines and help the material level, immediately Loop Roll the material after it has been placed. The material should be rolled straight forward and back picking up the roller with each pass; this will avoid leaving divots in floor. After the squeegee lines have been removed the floor should be cross rolled side to side along the entire wet edge. The final cross roll should be completed within 12 minutes of mixing the product at 70°F.
- G. Wear spiked shoes and broadcast chips up into the air and let it fall onto the floor. Make sure the broadcast is dispersed evenly over the entire floor area at a rate of 0.1lbs per square foot using macro chip and 0.15 lbs per square foot using micro chip. Broadcasting needs to be completed within 20 minutes of mixing. Do not roll or walk back into areas that have been broadcast. Allow POLY-CRETE MD SL to cure for a minimum of 6 hours at 70°F.
- H. Use a stiff bristle broom to sweep off excess chips. Use a vacuum to remove chips around the edges and corners that are not accessible with a broom.
- I. Scrape the floor with a trowel or floor scraper. Sweep and vacuum the floor again.

SECOND BROADCAST

- A. Measure out 1 part DUR-A-GLAZE #4 FAST hardener, and 2 parts DUR-A-GLAZE #4 Resin. First add the hardener in a separate mixing pail and then add the resin. Scrape bottom and sides with a mix stick to assure that all material is transferred to the mix bucket. Use the measuring pail to scrape the mix stick, and never scrape the mix stick on the side of the mix pail.
- B. Using a ½” 450 RPM drill with a Jiffler blade, mix the resin and hardener for 2 minutes.***DO NOT ADD RESIN TO HARDENER UNTIL BATCH IS READY FOR MIXING***
- C. Pour a 4” to 6” ribbon along the starting area. Use a 3” chip brush to cut in along edges, doorways, and drains.
- D. Using a 12” flat soft rubber window squeegee pull the material from side to side overlapping passes every 6”. Be careful not to leave any puddles. DUR-A-GLAZE #4 is applied at 150 Sq. Ft per gallon over the decorative chips.
- E. Wear spiked shoes and back roll the material against the squeegee lines with a high quality 3/8” nap roller.
- F. Cross roll the material side to side overlapping the previous pass with half the roller width.
- G. Broadcast chips up into the air and let them fall onto the floor. Make sure the broadcast is dispersed evenly over the entire floor area at a rate of 0.1lbs per square foot using macro chip and 0.15 lbs per square foot using micro chip. Do not roll or walk back into areas that have been broadcast. Allow DUR-A-GLAZE #4 to cure for 4 hours @ 70°F.
- H. Use a stiff bristle broom to sweep off excess chips. Use a vacuum to remove sand around the edges and corners that are not accessible with a broom.
- I. Scrape the floor with a trowel or floor scraper. Sweep and vacuum the floor again.

TEXTURE

SMOOTH

Use medium bristle brush on Slow speed floor machine

MEDIUM

Sand floor with a pole sander and heavy 80 grit screen

NON SKID

Sand floor with a pole sander and heavy a80 grit screen. Broadcast Aluminum Oxide into first topcoat.

GROUT COAT INSTRUCTIONS

- A. Measure out 1 part DUR-A-GLAZE #4 REGULAR hardener, and 2 parts DUR-A-GLAZE #4 Resin. First add the hardener to a separate mixing pail and then add the resin. Scrape bottom and sides with a mix stick to assure that all material is transferred to the mix bucket. Use the measuring pail to scrape the mix stick, and never scrape the mix stick on the side of the mix pail.
- B. Using a ½” 450 RPM drill with a Jiffler blade, mix the resin and hardener for 2 minutes.***DO NOT ADD RESIN TO HARDENER UNTIL BATCH IS READY FOR MIXING***
- C. Pour a 4 to 6” ribbon along the starting area. Use a 3” chip brush to cut in along edges, doorways, and drains.
- D. Using a 12” flat soft rubber window squeegee, pull the material from side to side overlapping passes every 6”. Be careful not to leave any puddles. DUR-A-GLAZE #4 is applied at 150 Sq. Ft. per gallon over the decorative chips.
- E. Wear spiked shoes and back roll the material against the squeegee lines with a high quality 3/8” nap roller.
- F. Cross roll the material side to side overlapping the previous pass with half the roller width. Allow Product to cure for 10 hours @70°F.

TOP COAT INSTRUCTIONS (OPTION 1)

POLY-THANE #2 HIGH SOLIDS TOPCOAT

- A. Measure out 1 part hardener and 2 parts resin of POLY-THANE #2 HIGH SOLIDS. **Be sure to pour the resin into the mixing bucket first, and then add the hardener. Always scrape the sides and bottom of the mixing container to assure thorough blending.** Mix for 2 minutes with a slow speed drill fitted with a Jiffler type mixer. Keep hardener and resin containers covered to prevent solvent evaporation.
- B. Using a quality 18 inch 3/8” non-shed nap roller, dip and roll the POLY-THANE 2 HIGH SOLIDS in a north/south direction at 250-300 Sq. Ft. per gallon. While wearing spiked shoes immediately cross roll with an 18 inch 3/8” non-shed nap roller in an east/west direction. Be sure to remove any impurities as you see them.

NOTE: This product is best suited for application in temperatures between 60°F and 85°F. Full chemical and abrasion resistance occurs in 7 days at 77° F. These properties will be attained more slowly at lower temperatures. Protect floor from chemical exposure and abrasive wear during this time

TOPCOAT INSTUCTIONS (OPTION 2)

ARMOR TOP TOPCOAT

SPREAD RATES

Gloss Clear (w/grit) = 650 SF/kit

Gloss Clear (no grit) = 625 SF/kit

Satin Clear (w/grit) = 775 SF/kit

Satin Clear (no grit) = 750 SF/kit

NOTE: Armor Top is sold in kits only. Spread rates vary due to differences in gloss and satin kit sizes.

- A. Pour 1 gallon of ARMOR TOP hardener into a 2 gallon bucket. Add 1 Quart of ARMOR TOP Colorant and mix for 30 seconds. Add 1 Quart of ARMOR TOP resin and mix for 30 seconds. If additional abrasion resistance is required, slowly add 1 pint of ARMOR TOP Grit and continue mixing for an additional minute. Pour a small

amount into a dip and roll tray that is large enough to accommodate an 18 inch roller.

- B. Dip roller cover into paint tray and roll off excess. Apply two 8-10 foot long paths from left to right then right to left. Re-wet roller and continue application. Even out roller lines by using W shaped crosses and/or up & down passes. If not even, re-roll up and down until uniform. A final cross-roll is necessary to even out roller lines. Make sure to complete this roll within 10 minutes of the coating being placed.
- C. To prevent settling of the grit/powder, occasionally remix ARMOR TOP in a tray or bucket with a stick. Dry time is dependent on humidity as well as temperature.
- D. If recoating over 24 hours, sand floor using at least a 60 grit screen, solvent wipe and apply DUR-A-GLAZE TIE COAT at recommended rate. Re-apply ARMOR TOP next day.

CAUTION

Refer to Material Safety Data Sheet for proper personal protective equipment to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.

Before using any DUR-A-FLEX, Inc. product, be sure the Material Safety Data Sheet is read and understood.