

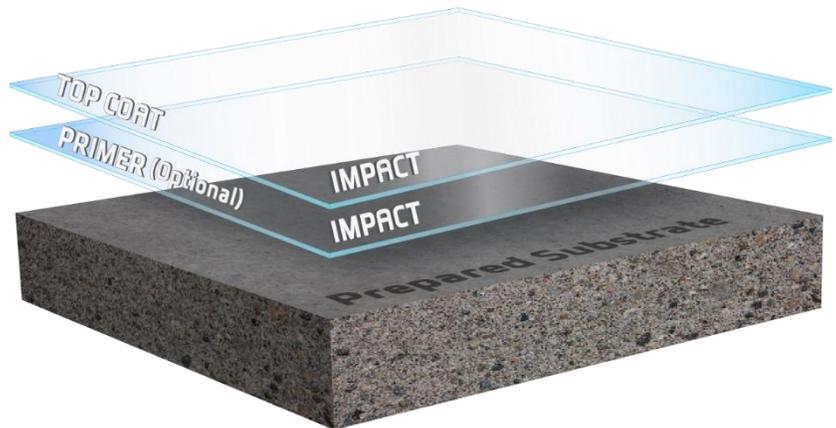
IMPACT GRIND & SEAL: T-bar/Back-roll Process

STANDARD OPERATING PROCEDURE (SOP)

The purpose of this SOP is to provide the step-by-step process required to apply IMPACT to various concrete substrates using the T-bar/Back-roll process.

System Required Tools

- a. IMPACT Water-based urethane Parts A, A1, B & C
- b. IMPACT Bond Promoter (if Matte direct-to-concrete)
- c. Walk-off matting
- d. Floor protectors
- e. Rubber gloves
- f. Safety glasses
- g. Shoe covers (booties)
- h. Chemical resistant tape
- i. Microfiber mop & pads or tack duster
- j. Threaded extension pole x 2
- k. 12" or 18" T-bar frame
- l. 12" or 18" T-bar refills
- m. 6.5" edge roller frame
- n. 6.5" x 1/4" nap mohair back-rollers
- o. 18" Wideboy roller frame
- p. 12" or 18" x 1/4" nap mohair back-rollers
- q. 2" paint brush
- r. Paper towels/rags
- s. Trash bags
- t. Fans and/or dehumidifiers
- u. "Wet floor" signs
- v. Pump sprayer (for primer coat)
- w. Psychrometer, Infrared Thermometer & Moisture Meter
- x. Two technicians/laborers (minimum)



IMPACT Grind & Seal

Environmental Testing

Test the environmental conditions within the area to be finished using a Psychrometer, Infrared Thermometer, and Moisture Meter.

Air Temperature: IMPACT SHALL NOT be applied when the air temperature is above 90°F or below 40°F.

Relative Humidity (RH): IMPACT SHALL NOT be applied when the RH is above 70%.

Adjustments to the temperature or relative humidity may need to be made prior to beginning the coating process. For best results, use fans and/or dehumidifiers when applying coatings in moist or humid environments. Although a building may be climate controlled, check the temperature and humidity and take appropriate action. Beware that some facilities have automatic thermostats that are turned down or even turned off in the evening hours. This can dramatically affect the temperature and humidity in the building.

Floor Temperature and Dew Point: IMPACT SHALL NOT be applied when the substrate (floor) temperature is less than 5° above the dew point (See DEW POINT CALCULATION CHART). Monitoring the substrate temperature, indoor temperature and RH, and utilizing fans and/or dehumidifiers as needed will help correct or prevent existing or possible dew point conditions until the installation is complete.

Environmental Testing (Continued)

Moisture Content: Ensure that the terrazzo or concrete floor to be coated is sufficiently dry prior to starting the IMPACT application process. Moisture percentage must be within 1% of the original reading taken prior to preparing the floor.

IMPACT Application Instructions

- 1. MICROFIBER MOP.** Affix shoe covers (booties) to avoid getting contamination or debris on the floor. Perform a final cleaning of the floor with a damp or dry microfiber flat mop or tack duster to remove any fine debris.
- 2. STAGE AREA AND APPLY TAPE AT DOORWAYS AND EXITS.** Stage the area with protective walk-off matting at the doorway. Tape off any doorways, exits or other areas that should not be coated. Tape a trash bag to the floor at your planned exit to pick up any excess IMPACT.
- 3. ISOLATE THE AREA AND PLACE WET FLOOR SIGNS:** Apply tape across all doorways and place “Wet Floor” signs indicating the time and date that the floor will be dry and ready for use.
- 4. DETERMINE IF A PRIMER COAT IS NEEDED.** Inspect the condition of the floor to determine if a primer coat may be beneficial prior to the application of IMPACT. Concrete that has been ground to a CSP2 or CSP3 (30-80 grit metal) or very porous concrete should be primed with a primer coat of IMPACT. Very dense, hard-troweled concrete or concrete that has been ground to a 200-grit resin or higher (including existing polished concrete) does not require a primer coat.
- 5. PREPARE T-BAR AND ROLLERS.** Fit mohair back-rollers and T-bar refills on frames. De-lint back-rollers and refills with tape.
- 6. PERSONAL PROTECTIVE EQUIPMENT.** Put on rubber gloves and safety glasses prior to mixing and applying IMPACT. Wearing long sleeves is recommended. Refer to Safety Data Sheets (SDS) for additional information relating to safe handling practices.
- 7. MIX PRIMER (IF APPLICABLE).** Mix IMPACT according to the instructions and reduce with water after adding IMPACT Part C.
Water Reduction Amount: Contractor Kit = 32 oz. Standard Kit = 16 oz.
Primer Coverage Rate: Contractor Kit: 700-1200 SF Standard Kit: 350-600 SF
- 8. APPLY PRIMER (IF APPLICABLE).** Apply the primer using the T-bar/Back-roll method (steps 10-17 below). The primer may also be applied with a Pump-spray (instead of pouring and spreading with a T-bar). Fill a 1 or 2-gallon garden-variety pump-sprayer with IMPACT and pump it roughly 50 times to create pressure. Spray IMPACT directly to the floor and back-roll with a 3/8” nap roller to spread IMPACT evenly. Spray enough product to sufficiently wet the concrete with the roller.
- 9. PRIMER RECOAT WINDOW.** Make sure to topcoat the primer with IMPACT within the following “recoat window”.
Recoat window: IMPACT 4HR: 4-7 hours IMPACT 8HR: 8-14 hours
If the recoat window is not met, MAKE SURE to prepare the primer coat properly using the Very Fine Maroon conditioning pad prior to top-coating with IMPACT (see Recoating IMPACT SOP). Failure to follow proper floor preparation instructions after priming will result in delamination of the topcoat from the primed surface.
- 10. MIX IMPACT.** Mix IMPACT (Mixing Instructions are found on the back of the Part A label).
IMPACT Coverage Rate: Contractor Kit: 500-800 SF Standard Kit: 250-400 SF
- 11. BEGIN THE T-BAR PROCESS.** As you begin, pour a line of IMPACT 3-4” wide across the entire area from wall to wall. This line should be poured approximately 8 inches away from the front wall. T-bar operator should now wet the T-bar applicator in the line of sealer. Drag or pull the T-bar at a slight angle across the room (like a snowplow). IMPACT should run off the edge of the T-bar closest to you.

When approaching a side wall, rotate the T-bar 90 degrees to the line of IMPACT along the side wall and pull the T-bar along the side wall approximately 18 inches. Then, rotate the T-bar 180 degrees so that the wet edge of the T-bar is now against the wall. Continue to drag the T-bar at a slight angle back across the room with the wet edge of the T-bar now along the wall. This will apply sealer evenly next to the wall. Avoid creating a puddle of IMPACT right next to the wall.

12. BEGIN BACK-ROLLING WITH 6.5" BACK-ROLLER. After the T-bar operator makes the first 2 passes with the T-bar, the back-roller should begin "back-rolling" over the IMPACT spread by the T-Bar along the wall using the 6.5" edge mohair back-roller.

13. CONTINUE WITH THE T-BAR. Continue gliding the T-bar from wall to wall. Apply consistent downward pressure to the T-bar to leave an even amount of IMPACT on the floor.

14. BEGIN BACK-ROLLING WITH 12" OR 18" BACK-ROLLER. After 2-3 passes with the T-bar, the back-roller should begin the back-roll process with the larger 12" or 18" mohair back-roller. Push back and forth with adequate pressure to level and remove all lines and streaks left by the T-bar. Then, "feather roll" slightly into previously rolled areas by reducing pressure on the roller handle and lifting slightly on a line or seam whenever possible.

TIPS:

Keep the mohair back-rollers as dry as possible and never roll into the puddle of IMPACT. If back-rollers become saturated with IMPACT, squeeze out excess IMPACT on a dry part of the floor.

Back-roll quickly as the IMPACT will start to become tacky in 1-2 minutes. Back-rolling into the IMPACT that has begun to set up will leave roller marks that may be visible in the final finish.

Resist overworking the IMPACT and do not slide the roller sideways.

While back-rolling, the back-roller should step back and allow the T-bar operator to pass.

Apply IMPACT on hard to reach areas with a 2" paint brush.

Keep a damp rag or paper towel handy to wipe IMPACT that may get on the wall base or permanent fixtures.

15. POUR ADDITIONAL IMPACT. Make sure the puddle for the T-bar never runs dry by pouring additional IMPACT on the floor. Avoid misses or dry spots by pouring IMPACT as necessary to maintain a 3-4" wide line.

16. MIX ADDITIONAL IMPACT AS NEEDED. When approaching the coverage rate mark (in step 5), mix additional IMPACT. Do not run out of IMPACT prior to starting the mixing process to avoid creating visible stop and start marks.

17. APPROACHING EXITS AND FINISHING CORNERS. When approaching the room exit or a corner of the room, it may be necessary to make an "L" shape along the side wall. To do this, turn the T-bar 90 degrees to the original line of IMPACT and pull the bar up along the side wall up to the wall where you will exit. Make 2-3 passes with the T-bar along the side wall, and then resume making 2-3 passes on the original line. Proceed to alternate with the T-bar/back-roller between the original line and the new line at 90 degrees until you reach the planned exit.

18. EXITING—DOORWAYS. When exiting the room, pull all excess IMPACT into the trash bag that is taped to the floor. Finish back-rolling with mohair back-rollers. Place the wet T-bar and back-rollers in the trash bag, pull the tape, and remove the trash bag from the floor. The T-bar refills and back-rollers may be used for up to 90 minutes on additional floors.

19. TURN ON FANS AND/OR DEHUMIDIFIERS. Use fans and/or dehumidifiers to accelerate dry times or in humid environments that have little to no airflow. Keep doors open to assist with the airflow.

20. CLEAN UP. When the IMPACT application is complete (or when T-bar refills or back-rollers have been used for 90 minutes), discard into the trash. Remove the applicator from the T-bar as soon as possible by twisting and pulling it at the same time. The T-bar refills and back-rollers are not reusable. Wash the T-bar and back-roller frames with a damp rag or soap and water. Allow excess mixed IMPACT to dry in the bucket overnight before discarding according to local regulations.

21. AFFIX FLOOR PROTECTORS TO FURNITURE. Affix floor protectors to any furniture or fixture that may prematurely damage the floor. (See Expanded Technologies Catalog)