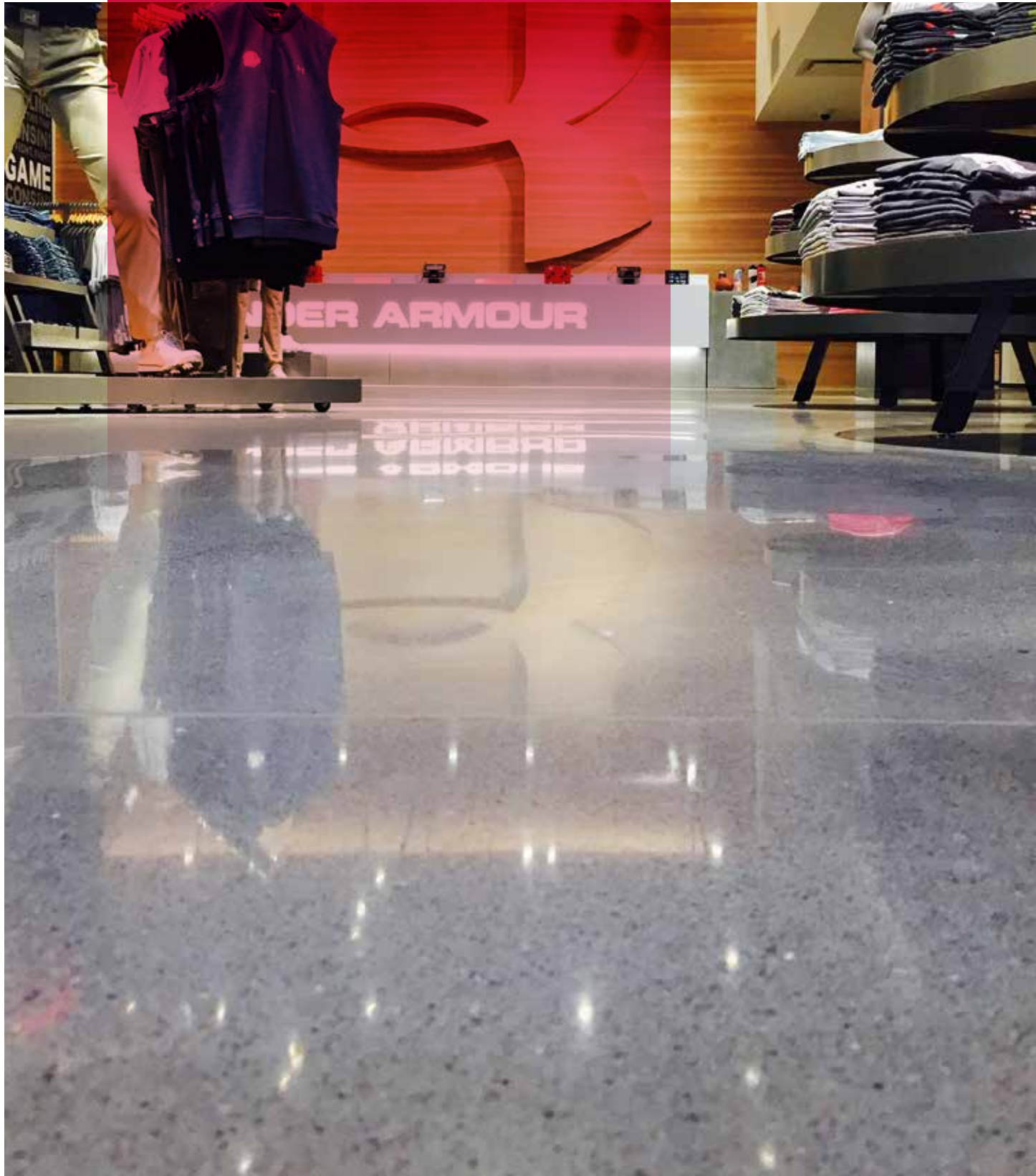


Installation GUIDELINES

TRU® Self-Leveling Polished Overlay





I. Preparation

1. Remove and repair any unsound or improper repair material on the substrate.
2. Create a suitable substrate profile for the primer.
3. Have the repairs and/or pre-leveling materials 3/8"-1/2" from finished floor elevation.
 - 3/8" min. for pedestrian traffic
 - 1/2" min for heavy forklift traffic
4. Look at the existing cracking pattern and determine if any joints need to be added.
5. Fill all cracks with the appropriate repair material while honoring all existing joints.

II. Primer – Installing the TXP™ FAST PRIMER

(Ready in 4-6 hours)

1. Mark out the proper amount of material needed for the project.
Approx. 400 ft² per 3-gallon kit.
2. Mixing the Primer
 - Mix all A units for 2 minutes.
 - Add B to A and mix for an additional 2 minutes.
 - Pour the entire mixed TXP FAST kit onto the surface. Spread the TXP FAST with a notched squeegee to the appropriate coverage rate of 400 ft². To achieve a uniform thickness, back roll perpendicular to the squeegee application with a 1/2" (12.7 mm) nap roller.
 - Immediately broadcast with clean, dry silica sand (#20 or #30 mesh) to rejection (approximately 50 lbs to 75 lbs per 100 ft² or 2.4 kg to 3.6 kg per m²). Sweep and vacuum to remove all loose sand after the primer has hardened and will accept blunt spikes shoes without damaging the primer.

Video – TXP Primer Application

<http://youtu.be/2YUEOGgsVac>

Video – Using a Floor Sweeper to remove excess sand.

https://www.dropbox.com/s/bg0speyvuok5mt/IMG_FloorSweeper.MOV?dl=0

III. Mixing and Transporting Equipment



TRU® Self-Leveling – Mixing with a strainer



TRU® PC Polished Concrete

The pictures above are the most efficient way of mixing and transporting the polished overlay material onto the floor.

- 3,000 plus ft² per hour.
- Better consistency when adding color and aggregates.
- No straining is needed with the TRU PC.

Keeping your Hippo at the mixing station and using a transport cart to get the mixed material to the floor will increase the amount of material you can produce in an hour. One hippo can usually mix about 40-55 bags of material per hour, yielding about 600-825 ft².

- 2 Hippos w/ 1 Pelican Transport Cart for smaller projects. (1,200-1,650 ft² per hour)
- 4 Hippos w/ 3 Pelican Transport Carts for larger projects. (2,400 -3,300 ft² per hour)



Hippo – Mixer



Hydraulic Cart



Pelican – Transport Cart

Pelican Transport Cart

<http://www.csunitec.com/mixing-drills-mixing-stations/hand-held-mixer-accessories/pelican-cart-canister>

Hydraulic Cart from Harbor Freight

<https://www.harborfreight.com/1000-lb-capacity-hydraulic-table-cart-60438.html>

Hippo Mixer with a removable dust cover

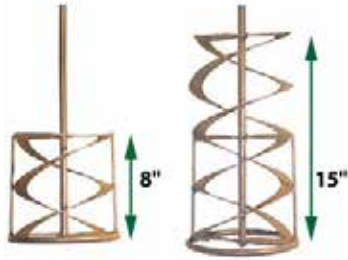
<http://www.csunitec.com/mixing-drills-mixing-stations/mega-hippo-mixing-stations>

IV. Mixing

Hippo Mixing Paddles – Always use the large paddle when mixing the following amounts.

LARGE PADDLES

- TRU PC = 4 bags
- TRU and LevelFlor® = 4-5 bags



Add the water to the hippo. Turn on low speed, If color is needed, add color to the water DO NOT OVER ADD THE MATERIAL to the point where the mixer can not properly mix. Always add the material to the center of the vortex till the mixed material reaches over the top of the mixing paddle. Then shut the motor off and switch to high speed. Once on high speed, gradually add the material to the center of the vortex. If the dry material is not getting mixed, simply turn off the motor and quickly turn it back on. This may cause a small amount of material to splash out of the

hippo; this forces the entrapped air out of the mix. The Initial start of the motor will help pull down that unmixed material.

Once all the material has been added, start the timer. Depending on the desired slump of the material you are mixing, you may want to (turn off/turn on) the machine few times during the remaining mix time.

MIXIG TIMES

- TRU® PC : 2-2.5 min, after last bag
- TRU®: 2.5-3 min, after last bag
- LevelFlor®: – 2-2.5 min, after last bag

Note: *If you notice a lot of material sticking to the side walls of the Hippo when dumping the mixed material to the transport cart, this generally means the dry material was added a little too quickly.*

Video – TRU PC mix & install video (Use 4 bags instead of 5 bags when mixing TRU PC)

<https://drive.google.com/file/d/1ETLnUhHgPQ7F7Muv0V3--KU8oNwWuibf/view?usp=sharing>

MISC. FOR MIXING STATION

- 55-gallon drums or trash cans (wheeled) for mixing water
- Ice (depending on water and material temp)
- Measuring containers
- Board for leveling water bucket
- 5-gallon buckets
- Digital timers for all hippos
- Rapid Set® Flow Kit

- Temperature Gun
- Margin trowels or trowels to aide in cleaning unmixed material
- Strainer - #8 Classifier (1/8" x 1/8") when mixing TRU® or TRU® Gray
http://www.crissongoldmine.com/shop/index.php? a=product&product_id=43
- CTS Mix Report
https://docs.google.com/spreadsheets/d/1-hm_GluyH4AtlC5GwNCeCkqSDiNaR34IOSllcMnzLRQ/edit?usp=sharing

It is best to have one container cut to the exact amount of water needed for the batch. Having one person measuring the water seems to work best, especially when the mix design includes color. This person should also oversee the flow testing, so the proper slump is met during the entire pour.

RAPID SET® FLOW KIT

Optimal aggregate exposure with the correct slump will decrease the grinding time.

Supplies

- Flow Ring: Schedule 80 PVC. Inside diameter: 1-¼", Height: 2"
- Sheet of Lexan Plexiglas minimum 8" x 10" x 0.09"
- Digital Caliper with minimum range to 150 mm and resolution 1 mm or better

Procedure

1. Prepare the field flow kit with ring placed in the center of the Plexiglas.
2. Mix following standard mixing instructions.
3. Upon completion of mixing, collect a sample and prepare to place it in the flow ring.
4. 30 seconds after the completion of mixing, pour the sample into the ring until it reaches the top. Take care not to drip onto the Plexiglas or overfill the ring. The ring should be filled in 10 seconds or less.
5. 60 seconds after the completion of mixing, lift the ring 2-4 inches above the Plexiglas and tilt it so all the drips fall in the middle of the patty. Hold the ring above the patty for 30 seconds. Do not shake the flow ring.
6. Wait an additional 30 seconds (2 min from the completion of mixing) and measure the diameter of the patty in two perpendicular directions.
7. Record the average diameter.
8. If the diameter is greater than the maximum allowable diameter, reduce the water. Never increase the water to exceed the maximum water dosage on the bag text.
9. If mixing 5 bags, remove 16 fl. oz. from the total mix water to achieve a moderate reduction of flow. If mixing 4 bags, remove 12 fl. oz.

TARGET FLOW DIAMETERS

- TRU® PC: 4 ¾" ± 1/8" (120 ± 3 mm)
- TRU®/TRU® GRAY: 5 1/8" ± 1/8" (130 ± 4 mm)
- LevelFlor®: 5 1/8" ± 1/4" (130 ± 5 mm)

V. Placement Tools

- Use Rapid Set® Spiked Rollers for the best results. Keeping a live wet edge will produce flatter floors. Mix stations should be equipped with at least two Hippos. When placing at 3/8", based on normal temperatures, two hippos can effectively produce a 25'-30' wide pour.
- Place the material with the Pelicans in a uniform line. Then gauge the wet material perpendicular to the way it was placed. When gauging the material, you should see aggregate right at the surface, if not, adjust the water.
- Use the Rapid Set Rollers in the same direction that the wet material was placed. The roller should go forward, then back roll. Do not twist the roller on the floor when using the roller. Pick the roller straight up and slightly overlap the rolled material overlay, always starting from the beginning of the poured material and keeping slightly behind the gauge rake. Most of our overlays have a 15-20-minute flow.

GAUGE RAKE

Midwest Rake Gauge Rake with Cams

<https://coatings.seymourmidwest.com/guage-rakes#/specFilters=3m!#-!9>

SPIKED SHOES

Long blunt spikes are needed once the primer has cured. Use spikes that won't damage the primer.

<http://www.shoeinprofinish.com/shoe-in-spike-shoes/>

<http://www.shoeinprofinish.com/blunt-spikes/>

SPIKE ROLLER

TRU PC Spike Roller

<https://drive.google.com/file/d/1aBIDR4tf5nDInMeNNDDbFE-8zscWMy7C/view?usp=sharing>

TRU & TRU PC Spike Roller Flyer

https://drive.google.com/file/d/1MmBH6q_bcUcRAxYzFepkawovfX3OG-l-/view?usp=sharing

TRANSPORTING MATERIAL

TRU PC with Pelican Cart

<https://drive.google.com/file/d/1d6HqUwKqgmwEHzdd4ENRnos8CLw54dDi/view?usp=sharing>

Download the latest Guidelines for Installing a TRU® Self-Leveling Polished Overlays

<https://drive.google.com/file/d/1qXi5zhG3Vxcx1A6FQT3X5BY43ZMiReJw/view?usp=sharing>

Download the latest Guidelines for Installing a TRU® Self-Leveling Polished Overlay

https://drive.google.com/file/d/1Eowr_Gby53ku8RsGcEs1K9M78cHgpjIH/view?usp=sharing

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