HT Concrete Seal

HT(clear) Concrete Seal is a 3-part, high-solid epoxy resin formulation. Use HT to transform bare concrete or previously coated concrete floors into showroom caliber floors that deliver the ultimate in protection and appearance. Apply HT Clear over Hillyard Primer. Also, apply HT Clear as a top coat over HTB or HTG Concrete Seals.

- Extreme duty, 3-part, high solids epoxy resin.
- Great hot tire resistance.
- Designed for indoor use, low odor, 12 hour dry time.



Technical Specifications

Appearance	Emulsion
Dilution Rate	RTU
Color	Off-white
Scent	Slight Amine
Non Volatile Matter	44.00 - 46.00%
pH @ 25 deg. C	9.75 - 10.75

Safety

See material safety data sheet and product for safety information, handling and proper use.

HMIS (Concentrate/RTU)

Flammability = 0	Health = 3	Reactivity = 0

Availability

HIL0049306	1 - 1 Gallon Kit
HIL0049307	1 - 5 Gallon Kit

Directions

DIRECTIONS FOR USE:

PART A

IMPORTANT: For indoor use only. Temperature and humidity affect pot life and curing properties. High temperature may shorten useful pot life of product and low humidity may cause coating to dry too quickly. Floor temperature should be between 50°F and 90°F; do not apply product if relative humidity is higher than 85%. Do not apply to damaged, loose or spalling concrete, or to damp concrete (moisture coming from within the surface must be corrected before use). For new or bare concrete, allow 90 days minimum for proper curing before applying seal or finish.

Test Methods-For use in Steps 1 & 2

Previous Coating Test

Sprinkle a small amount of water on the surface. If the water beads up instead of soaking into the surface, there is an existing coating or seal.

Excess Moisture Test

Attach a 2' x 2' square of clear plastic sheeting to the floor by sealing all 4 sides with duct tape. Wait 24 hours. If moisture beads on the plastic or the floor is discolored from being damp, the floor contains excess moisture.

Adhesion Test

Using a razor blade angled 45 degrees to the floor; scribe an "X" pattern all the way through the coating to the concrete. Apply duct tape to the area and firmly press into place with your finger. After allowing the tape to sit for 60 seconds, quickly pull off the tape. If most of the seal is pulled off, adhesion may not be sufficient for coating.

1. **Evaluate**

Concrete must be indoors, at least 90 days old, with a surface temperature range between 50F-90F.

Perform **Previous Coating Test** to determine if concrete is bare/open or has been previously coated. This will affect pad selection during preparation and further testing and evaluation of the previous coating to see if it is structurally sound to be coated over. Do not apply to damaged, loose or spalling concrete, or to damp concrete, (moisture coming from within the surface must be corrected before use), For new or bare concrete, allow 90 days minimum for proper curing before applying seal or finish.

Previously Coated Concrete Floors

Determine if the previous coating is a permanent coating or removable coating by applying a small amount of floor stripper to the surface. If the stripper emulsifies the coating, it is most likely a removable coating and should be stripped with a product like Hillyard Arsenal ® Stripper per label instructions. Repeat as necessary for complete removal. If previous coating is a permanent coating, perform Adhesion Test to make sure previous coating adheres to the surface. If the previous coating does not adhere properly, it will need to be removed with the Malish Diamabrush System. Previous coating must be visually sound without any peeling or flaking. If it is not sound, remove the previous coating with the Malish Diamabrush System.

Bare/Open Concrete Floors

If floor is bare/open, perform Excess Moisture Test to ensure there is no excess moisture or hydrostatic pressure in the concrete slab. If test reveals excess moisture or hydrostatic pressure, STOP, correct the moisture problem before

proceeding. Do NOT proceed if problem cannot be corrected. Multiple test patches may be performed on large floors.

If there are any cracks or chips that need to be filled prior to preparation – see step 3

1. **Perform Adhesion Test**

Scrub a small section of floor, enough to coat a 2'x2 ' test patch.

- Use Hillyard SM-1 at 6 oz. per gallon.

- Use a floor machine, autoscrubber or a manual scrub brush.

- Bare/Open concrete floor pad selection: Scrub with black pad.

- Previously coated floor pad selection: Scrub with 3M SPP

- Rinse thoroughly, let dry.

Using Concrete test kit HIL0050269

Apply Concrete Primer to 2' x 2' area and let dry minimum 1 hour

Apply mixed parts A & B to 2' x 2' area and let dry.

Wait 48 hours.

Perform Adhesion Test. (above)

- If adhesion test succeeds, continue.

- If adhesion test fails, use the Malish Diamabrush System, repeat testing.

1. **Repair (if required)**

HIL22013 - Crack and Patch, Bulk, Gray - 2-part epoxy for trowel filling

HIL22014 - Crack Filler, Cartridge, Clear - Use with standard caulk gun.

HIL30011 - Trowel, CSM4067100 Steel Wire Brush

1. **Preparation - Floor Machine or Autoscrubber**

Pad Selection

- Bare/Open Floors: black pad.

- Previously Coated Floors: 3M SPP.

Scrub with a solution of Hillyard SM-1®, diluted at 6 oz. per gallon of water.

- Floor Machine: mix in mop bucket, apply liberally with mop.

- Scrub in 10’ x 10’ sections. Use a wet-vac to remove scrubbing solution.

- Autoscrubber: mix in tank, scrub, remove.

Rinse the floor thoroughly. (Repeat if necessary)

- Floor Machine: Mop on fresh clean water, remove with wet vac.

- Autoscrubber: apply water, remove.

- Let floor dry completely.

1. **Apply Hillyard Concrete Primer**

Recommended Application Method

- Smooth or previously coated floors: flat mop.

- Rough floors: 3/8” nap roller.

FLOOR Temperature: 50^0 F-90^0 F.

Approx. Coverage Rate

- Bare/Open Floors: 500 - 700 sq. ft. per gallon.

- Previously Coated Floors: 1,000 to 1,500 sq. ft. per gallon.

Dry Time: At least 1 hour. Must be top coated with HT Concrete Seal within 24 hours.

Do NOT apply a complete second coat. Only re-apply in thin/bare spots.

1. **Apply Hillyard HT Concrete Seal**

For indoor use only. For outdoor use Hillyard Repel® sub-surface penetrating sealer.

Floor must be coated with Hillyard Concrete Primer before seal coat. Primer coat must be dry with a slight tack to it before top coating with seal. Primer coat must not sit open without a top coat longer than 24 hours.

Adequate air handling and circulation are extremely important during the application and curing process, especially if the relative humidity exceeds the room temperature. Avoid direct drafts on the floor. Immediately after each coat has been applied, turn on the exhaust system. Before applying HILLYARD HT CONCRETE SEAL, tack the floor a final time with a cleaning cloth similar to HILLYARD Item CHI415. **NOTE: If after abrading, the floor sits for longer than 24 hours before being coated, re-abrade and tack before applying additional coats to prevent peeling from occurring.**

Mixing Instructions - Mix Part A with a drill type mixer for 3 to 5 minutes, until uniform. Add the Activator to Part A. Once the Activator has been added, pour Part B into the pail and continue mixing for 5 minutes. Use product within one hour of mixing for best results.

Recommended floor surface temperature range for coating: 50-90F

Do not apply if relative humidity is higher than: 85%

Do not apply unless concrete is 90 days old

Recommended applicator: HILLYARD Item HIL28845 3/8 Nap Roller

- Extremely porous floors may be coated using a ½" nap roller.

Approximate coverage rate (square feet) per gallon: 500 – 600

Approximate dry time per coat 12 hours

Hours after dry to re-open floor to light foot traffic: 12 hours

Hours after dry to re-open floor to traffic indicated on the label: 72 hours

Abrade the surface between coats with a 3M SPP (Surface Preparation Pad) at 250 sq. ft. per side if longer than 24 hours after applying previous coat.

CLEAN-UP: Use warm water to clean application equipment

MAINTENANCE: Dust mop daily with Hillyard Super Hil- Tone®, Hil-Mist®, Hil-Treat® . Clean badly soiled floors with SM -1

Decorative Flake Option

For best results, after flaking AND coating has dried, top coat with another coat of HT Concrete Seal.

HIL22012 - Gray Mix Decorative Flakes

HIL22011 - Blue Mix Decorative Flakes

HIL22015 Tan Mix Decorative Flakes

Broadcast on top of coating, during application, when coating is WET

1-Person Application Method - Apply HT Concrete Seal in 4' x 4' sections. Broadcast the flakes by throwing in an upward motion and allow them to fall and settle onto the floor.

2-Person Application Method with Spike Slippers (best results) - As one person is coating, a second person wearing spike slippers can broadcast flakes by throwing the flakes in an upward motion and allowing them to fall and settle onto the floor. Cover enough area so broadcasted flakes stay in the wet HT Concrete Seal. Try to keep flakes from falling onto the uncoated surface by leaving about a one foot "flake-free" buffer in the coating edge next to an uncoated surface. As more area is coated, the "flake-free" buffer is flaked.

Add-Texture Option

Hillyard Slip Resistant Concrete Sealer Additive, HIL22000 is a unique texture additive that, when added to the FINAL topcoat of HT Concrete Seal, can reduce the potential for slipping. This product will not change the color of the floor coating. Use on stairs, indoor decks or walkways, damp, or inclined areas that tend to get slippery.

- Mix 3.6 ounces (about a cap full) of additive per gallon of seal.
- Mix 18 ounces (entire container) of additive per 5 gallons of seal.

Additive to HT Concrete Seal: Mix Part A with a drill type mixer for 3-5 minutes, until uniform. Add the Activator to Part A, then add the proper amount of slip additive into Part A and mix 3 minutes. Continue mixing and add Part B to pail, once the Part B has been added, continue mixing 5 minutes, until uniform. Use product within 1 hour of mixing for best results.

PART B:

Mixing Instructions: Mix Part A with a drill type mixer for 3 to 5 minutes, until uniform. Add the Activator to Part A. Once the Activator has been added, pour Part B into the pail and continue mixing for 5 minutes. Use product within one hour of mixing for best results.