

# MT Concrete Seal

MT Concrete Seal provides fast-drying clear coat protection for improved dust control, excellent gloss, and enhanced durability under pedestrian traffic, cart traffic, and power dolly traffic. MT Concrete Seal makes floor cleaning easy, and it is part of the Hillyard Concrete Defense system. Hillyard Concrete Defense changes the way coatings are applied - delivering professional results without the cost of professional application. Traditional coatings, designed for in-house application, often fail because surface preparation is too complicated and labor intensive. Our proprietary primer-based system greatly simplifies prep work - eliminating typical steps like acid-etching, grinding and shot-blasting. MT Concrete Seal is designed to be used with Hillyard Concrete Primer. Hillyard Concrete Primer chemically bonds the coating to the surface, resulting in a protective shell that looks great and performs well under traffic. Get professional results, get Hillyard Concrete Defense.

- Urethane acrylic blend.
- No-mix single component, water-based low odor formulation.
- Dries in 3 hours under normal conditions.

## Technical Specifications

Appearance	Milky Emulsion
Dilution Rate	RTU
Color	Milky White
Scent	Non-objectionable
Non Volatile Matter	25.00 - 26.00%
pH @ 25 deg. C	7.50 - 8.50

## HMIS (Concentrate/RTU)

Flammability = 0      Health = 2      Reactivity = 0

## Safety

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

## Availability

HIL0049206      4 - 1 Gallon Containers  
HIL0049207      1 - 5 Gallon Pail

## Directions

DIRECTIONS FOR USE:

**IMPORTANT:** Surface should be clean, dry and free from dirt and oil before coating. For indoor use only. Temperature of concrete surface and air must be between 50 and 90 degrees Fahrenheit. 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 Method-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 50°F-90°F.

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 previously 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.

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

Apply MT Concrete Seal 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)**

HIL22018 – Miracle Bond Concrete Repair Epoxy

HIL22017 - CSR Rapid Cure Crack Filler

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°F-90 °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 MT Concrete Seal within 24 hours.

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

1. **APPLICATION:** Before applying HILLYARD MT CONCRETE SEAL, tack the floor a final time with a cleaning cloth similar to HILLYARD Item CHI415. Apply 2 to 3 coats of HILLYARD MT CONCRETE SEAL, at a coverage rate of 500 - 1000 square feet per gallon, with a light weight T bar similar to HILLYARD Item HIL50043. A 3/8" nap roller may be used on rough concrete. As with any coating, coverage rates may vary based on surface type and condition. For extremely porous floors, additional coats may be required. Allow coat to dry 3 to 5 hours between applications (dry time may vary based on temperature and humidity). The floor can be opened to light foot traffic after 4 hours and normal foot traffic after 16 - 24 hours.

**MAINTENANCE:** Dust mop daily with Hillyard Super Hil- Tone<sup>®</sup>, Hil-Mist<sup>®</sup>, or Hil-Treat<sup>®</sup>. Clean badly soiled floors with SM-1.

**NOTICE:** Store in a heated warehouse. Keep container closed when not in use. Do not pour unused seal back into container. Do not use products containing d-Limonene, to prepare concrete prior to coating.