



Phoscrete HC Kit (Bags & Jugs) Installation Checklist

Phoscrete HC is a fast-setting, easy-to-use concrete repair material that delivers long-lasting repairs with rapid return to service. Phoscrete HC is primarily used for horizontal, cast in place, and vertical form-and-pour repairs.

Shelf Life

When components are properly stored, **shelf life of Phoscrete Dry Mix is two [2] years.** **Shelf life of Phoscrete Liquid Activator is one [1] year.** Store Dry Mix indoors, in low humidity. Store Liquid Activator indoors and minimize temperature swings.

Lot numbers are printed on every bag of dry mix and every box that holds 4 jugs of activator, so be sure to check the lot numbers before installing, and before discarding the box that holds the jugs. Here is how to decode a Phoscrete batch number:

Dry Mix Bags: [YDDDBB]

First digit is the year, followed by day of year (3 digits). The last 2 digits are the batch number. For example: "101201" the dry mix was bagged on Jan. 12, 2021 (batch 01).

Liquid Activator Jugs (boxes): [6YDDDTTPP]

First digit (6) indicates Activator, second digit is year, followed by the day of year (3 digits) then the last 4 digits are the tank and pallet, respectively. For example: "610110403" activator was jugged on Jan. 11, 2021 (tank 04, pallet 03).

Phoscrete HC mixes 1 BAG of Dry Mix into 1 JUG of Liquid Activator (Always pour Liquid first).
NEVER MIX PHOSCRETE WITH WATER!

Safety and Personal Protection Equipment

Phoscrete Dry Mix contains magnesium, calcined aluminosilicates, graded aggregates, and rigid fibers. Phoscrete Liquid Activator is a low-odor mono-aluminum phosphoric acid solution. When mixing, placing, and finishing Phoscrete, wear:

- ☐ *Particle filtration mask*
- ☐ *Nitrile-coated gloves*
- ☐ *Eye protection*
- ☐ *Water and an eye wash station.*

Mixing, Placing and Finishing Items

- ☐ *Heavy Duty Drill (minimum 7 amp, ½", dual/variable speed):* Use for mixing Phoscrete. Start on low speed. (Bosch GBM9-16 is recommended). Warning: under-powered drill will take longer to mix up Phoscrete HC, reducing your working/finishing time.
- ☐ *Phoscrete Urethane Mixing Auger:* Highly recommended for fastest mixing.
- ☐ *Paddle-Style Mortar Mixer with rubber-tipped paddles:* On large volume repairs, up to six [6] kits may be mixed at once using a rubber tipped, paddle-type mortar mixer.



Whiteman WM70PH8 with a polyethelyne drum is recommended. Review complete installation guidelines prior to working with mortar mixer.

- ☐ **Power Source and Extension Cords:** Enough to power all required drills. **Warning:** if your extension cord is too long or the wire gauge is too thin, or if you are powering too many devices, you will experience voltage drop, weakening the power of the drill mixers.
- ☐ **5-Gallon Buckets:** Use for mixing Phoscrete and storage of water for cleanup. Have at least 2 buckets for each person mixing Phoscrete plus 1 bucket for water/cleanup.
- ☐ **Water:** Clean trowels while finishing and clean hands and tools when job is completed.
- ☐ **Large Coolers:** Chill Liquid Activator on ice at least 4 hours in warm climates for extended working time prior to repair. Bring additional coolers and extra ice for larger repair jobs. When installing in lifts, save coldest activator jugs for final mixes.
- ☐ **Wire Brush:** Use to clean dust, debris, and slurry off edges when saw-cutting and to remove loose scale from rusted rebar.
- ☐ **Phoscrete Stinger (Pencil Vibrator):** Increase material flow and reduce air voids, especially for deeper pours, cast form and pours, and around and under rebar.
- ☐ **Magnesium Float (recommended) or Steel Trowel:** Tap hard when finishing to smooth and bring the liquid to surface. Trowel toward the edges for best bond.
- ☐ **Screed:** Level the repair to the surface prior to final finish, especially when working repairs up an incline. Urethane-painted wooden screeds prevent bonding to Phoscrete.
- ☐ **Bump and/or Angle Grinder with Diamond Grinding Discs:** Remove high spots after finish, and grind exposed corner to a 45° edge on headers prior to installing the joint seal. For large areas use a walk behind bump grinder as soon as 30 minutes after initial set for smoothest rideability. Grinder can also be used for site preparation.

Site Preparation Items

- ☐ **Demolition Saw:** Use for demolition and to re-establish control joints.
- ☐ **Jackhammer or Chipping Gun with Demolition Bit:** Remove unsound/damaged material.
- ☐ **Phoscrete Needler (Needle Gun):** Scarify surface and remove loose scale, unsound concrete, and remove all asphalt and petroleum-based materials.
- ☐ **Propane/Butane Torch (Grass Burner):** Remove moisture from damp surfaces. Burn off surface oils. Phoscrete bonds best to dry, clean, sound substrates.
- ☐ **Air Compressor, Hose, or Blower:** Remove dust and debris from prepared repair site. Sandblasting is optional.
- ☐ **Polystyrene Foam Board:** Establish control and expansion joint spacing. For headers when finishing both sides at once, better to use two thinner pieces and fill the gap with some cardboard in-between to desired opening for easiest removal after pour.

Visit www.phoscrete.com for complete installation documents and videos.

Your Phoscrete Representative is available 24/7 if you have questions or concerns.