



PHOSCRETE FORMULA 3-HC

PRE-INSTALLATION CHECKLIST

PHOSCRETE® FORMULA 3-HC™ (F3-HC), formerly Phoscrete Formula 3E-HC, is a fast-setting, easy-to-use MKP concrete material that delivers long-lasting repairs with rapid return to service. PHOSCRETE F3-HC is primarily used for horizontal, cast in place, and vertical form-and-pour repairs. Please visit [Phoscrete Technical Documentation](#)ⁱ for the latest version of all Phoscrete technical and installation documents. Read and understand [Phoscrete Formula 3 \[MKP Series\] Full Installation Guide](#)ⁱⁱ for complete installation details.

Packaging

F3-HC is produced in Kits (55 lb Bags + Endure Jugs) with coverage 0.45 cf/kit (5.4 bf). F3-HC is also available in Small Pails (bags + jars) with coverage 1 bf. Refer to [Phoscrete Formula 3-HC Technical Data Guide](#)ⁱⁱⁱ for complete packaging and coverage information.

Shelf Life

When components are properly stored, the shelf life of **F1 Dry Mix is two [2] years**. The shelf life of **Endure is 18 months**. Store Dry Mix indoors, in low humidity. Store Endure in temperatures above 41°F (5°C).

Lot Numbers

14 Digit Phoscrete Lot Numbers [PNX-YYMMDD-LBB] are printed on every bag of Dry Mix, every jug/jar of Endure so be sure to check the lot numbers before installing. The middle part, YYMMDD is the date of production. Refer to [How to read a Phoscrete Lot Number](#)^{iv} to fully decode Phoscrete product batch numbers:

Disposal

Mixed and hardened Phoscrete, dry mix powder, and Endure can be safely disposed in any dumpster or landfill in accordance with local environmental regulations.

Health, Safety, and Environmental

Read, understand, and follow all Installation Instructions, Safety Data Sheets, and product label information for this product prior to use. The latest SDS can be obtained by visiting [phoscrete.com](#), emailing your request to safety@phoscrete.com, or calling +1 561-420-0595. Use only as directed. For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC® 24 Hours 800-424-9300 / +1 703-527-3887. Contracted by Phoscrete, CCN 866520.

Personal Protection Equipment

When mixing, placing, and finishing Phoscrete, wear a particle filtration mask, nitrile-coated gloves, and eye protection. Have water and an eye wash station handy. Wash your hands with soap and water after working with Phoscrete. Watch [Personal Protective Equipment \(Video\)](#)^v



Phoscrete F3-HC mixes 1 BAG of Dry Mix into PREMEASURED Water plus 1 DOSE of Endure Admix (Always pour liquids first).

Mixing, Placing and Finishing Items

- Heavy Duty Mixing Drill (minimum 7 amp, ½", dual/variable speed):** Start on low speed. (Bosch GBM9-16 is recommended). Warning: an under-powered drill will take longer to mix up Phoscrete F1-HC, reducing your working/finishing time, and potentially burning out your drill.
- Phoscrete Urethane Mixing Auger:** Highly recommended for fastest mixing, easy clean-up.
- 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 polyethylene 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 or Larger 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 and boots when job is completed.
- Large Coolers:** Chill Water on ice in warm climates for extended working time prior to repair. Bring additional coolers for larger repair jobs. Refresh ice if water warms.
- 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.
- Plastic Float (recommended), Magnesium Float or Steel Trowel:** Tap hard when finishing to smooth and bring the liquid to surface. Trowel toward the edges for best bond.
- Hand 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 60 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. When working with Endure admixture, apply painter's tape to the foam board at Phoscrete interface because Endure dissolves polystyrene.

Phoscrete Technical Support

Visit our website for the latest installation guides and technical data.

Contact Phoscrete installation support anytime for guidance for your concrete repair projects:

install@phoscrete.com

+1-561-420-0595

Phoscrete Corporation
1800 NW 15th Ave, Suite 130
Pompano Beach FL 33069

URLs for Referenced Hyperlinks in this Document

This document is published at phoscrete.com where you can click on the referenced hyperlinks in the document. If you have a printed version, full URLs are end-noted below.

ⁱ <https://www.phoscrete.com/technical/>

ⁱⁱ <https://www.phoscrete.com/phoscrete-formula-1-malp-series-full-installation-guide/>

ⁱⁱⁱ <https://www.phoscrete.com/tdg-phoscrete-fi-hc-technical-data-guide/>

^{iv} <https://www.phoscrete.com/phoscrete-best-practices-lot-number-decoded/>

^v <https://youtu.be/XxoTYjG4iUY>