



PHOSCRETE FORMULA 3-VO

PRE-INSTALLATION CHECKLIST

PHOSCRETE® FORMULA 3-VO™ (F3-VO), is a fast-setting, easy-to-use MPC concrete material that delivers long-lasting repairs with rapid return to service. PHOSCRETE F3-VO is primarily used for vertical and overhead spray-applied shotcrete, and hand-packed, trowel finished concrete 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-VO is produced in Large Bag Kits (50 lb. bags + jugs) with coverage 0.45 cf/kit (5.4 bf), and Small Bag Kits (22 lb bags + jugs) with coverage 0.20 cf/kit (2.4 bf). Refer to [Phoscrete Formula 3-VO Technical Data Guide](#)ⁱⁱⁱ for complete packaging and coverage information.

Shelf Life and Lot Numbers

When components are properly stored, the shelf life of **F3 Dry Mix is two [2] years**. The shelf life of **Liquid Activator is one [1] year**. All material labels are stamped with a lot number for quality control. The use-by date is stamped in the bottom right corner of all labels. Refer to the document, [Phoscrete Best Practices - Labels, Shelf Life, and Disposal](#)^{iv} to view the label format for all Phoscrete products.

Storage

Store Dry Mix indoors, in low humidity. Store Activator indoors in temperatures above 41°F (5°C). Condition material temperatures to manage set time when working in hot and cold temperatures.

Disposal

Mixed and hardened Phoscrete, dry mix powder, Endure, and Activator 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-VO mixes 1 BAG of Dry Mix into 1 JUG of F3-VO Activator (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 F3-VO, 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 Liquid Activator on ice for at least 4 hours in warm climates for extended working time prior to repair. Bring additional coolers for larger repair jobs. Refresh ice when it melts. 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.
- **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. Plastic screeds or Urethane-painted wooden screeds prevent bonding to Phoscrete.
- **Bump and/or Angle Grinder with Diamond Grinding Discs:** Remove high spots after finish and grind the 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.





Site Preparation Items

- Demolition Saw*: Use for demolition and to 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, it is better to use two thinner pieces and fill the gap with some cardboard in-between to desired opening for easiest removal after pouring.

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:

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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-3-mkp-series-full-installation-guide/>

ⁱⁱⁱ <https://www.phoscrete.com/tdg-phoscrete-f3-vo-technical-data-guide/>

^{iv} <https://www.phoscrete.com/phoscrete-best-practices-labels-shelf-life-and-disposal/>

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