



PHOSCRETE FORMULA 3-VO

PRE-INSTALLATION CHECKLIST

PHOSCRETE® FORMULA 3-VO™ (F3-VO), is a fast-setting, easy-to-use MKP 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 and 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 0.40 cf/kit, and Small Bag Kits (22 lb bags + jugs) with coverage 0.17 cf/kit (2.0 bf). F3-VO is also available in Small Pails (bags + jars) with coverage 1 bf. Refer to [Phoscrete Formula 3-VO Technical Data Guide](#)ⁱⁱⁱ for complete packaging and coverage information.

Shelf Life

When components are properly stored, the shelf life of **F3 Dry Mix is two [2] years**. The shelf life of **VO Activator is 12 months**. Store Dry Mix indoors, in low humidity. Store VO Activator in temperatures above 41°F (5°C).

Lot Numbers

All components are labeled with a manufacturing date and a lot number. The "born on date" is printed at the bottom right corner of every package. Refer to the document, [Phoscrete Best Practices - Labels, Lot Numbers, and Shelf Life](#)^{iv} to view the label format and how to interpret Lot Numbers for all Phoscrete products.

Disposal

Mixed and hardened Phoscrete, dry mix powder, Endure, and VO 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 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.
- *Phoscrete ShotPump and Pan Mixer*: For spray-applied shotcrete or pumping applications, up to three [3] kits may be mixed at once using the Phoscrete Pan Mixer and feeding through the ShotPump. Review complete installation guidelines prior to working with the ShotPump and Pan Mixer.
- *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 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.
- *Steel Trowel*: Trowel toward the edges for best bond. F3-VO can be feather-finished.
- *Stucco Sponge*: Lightly dampen sponge with water and finish surface for smooth texture.
- *Angle Grinder with Diamond Grinding Discs*: Grind F3-VO to tolerance in pre-cast shapes and other patches as desired. Grinder can also be used for site preparation.
- *Phoscrete Measuring Beaker*: Used to measure the correct amount of additional Phoscrete Endure for ShotPump shotcrete and pumping applications.



Site Preparation Items

- Angle Grinder and/or Demolition Saw*: Use for demolition and to re-establish drip grooves.
- 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 contamination 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. For ShotPump and Pan Mixer operations, minimum 165 cfm compressor is required with appropriate air hoses for ShotPump, Pan Mixer, and spray nozzle.
- Polystyrene Foam Board*: Use for forms. When working with Endure admixture, optionally 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
792 Northeast 40th Court,
Oakland Park, FL 33334

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-lot-numbers-and-shelf-life/>

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