



# PHOSCRETE WITH MPC TECHNOLOGY

## Magnesium-Phosphate-Cement

### PERFORMANCE CHARACTERISTICS

**Phoscrete Concretes bond chemically and mechanically to horizontal, vertical and overhead concrete.** The exothermic reaction between Phoscrete's Dry Mix and Liquid Activator creates MPC concrete with a magnesium-phosphate cement binder. When Phoscrete is installed to clean, sound concrete, chemical bonding assures coherence, and mechanical bonding assures adherence to the concrete substrate.

**Both Cementitious and Polymeric Properties:** Phoscrete is an easy-to-use, rapid-setting, concrete-grey colored cementitious material that is not brittle or prone to cracking. Phoscrete's high early bond strength, flexural strength, and tensile strength make it an excellent choice for repairs more common to elastomeric materials (polymers), without the odor or mess.

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|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Rapid Return To Service</b></p>                         | <p>Phoscrete attains high early compressive strength, allowing the repaired surface to <b>open to traffic in one hour</b>. Phoscrete accepts joint sealants and pavement coatings after one hour, allowing repairs to be completed in one traffic closure. <a href="#">Learn more...</a></p>                                                                                        |
| <p><b>No Cold Joints<br/>No Shrinkage<br/>Cracking</b></p>    | <p>Phoscrete achieves high early and ultimate bond strength to clean, sound, cured concrete, and to Phoscrete itself wet or cured. Responding to occurring strains by tensile deformation plus flexural strength, <b>Phoscrete does not experience shrinkage cracking</b>. Phoscrete is extremely durable in high stress environments. <a href="#">Learn more...</a></p>            |
| <p><b>Stops Rust on Contact<br/>No Halo Effect</b></p>        | <p>Phoscrete converts iron oxide (rust) to metal phosphate, stopping the corrosion reaction on reinforcing steel, and inhibiting further corrosion. <b>Sandblasting of rebar is not required</b>, simply remove loose scale with a wire brush. Phoscrete cures slightly acidic and does not push the corrosion reaction out to surrounding rebar. <a href="#">Learn more...</a></p> |
| <p><b>Easy Mixing<br/>Easy Placement<br/>Easy Cleanup</b></p> | <p>Phoscrete is a pre-measured, two-component (bag + jug) system that insures accurate and consistent mixing from batch to batch. Phoscrete is self-consolidating with low slump and is fast setting - an excellent material for installation on inclined surfaces. Phoscrete uses standard concrete finishing tools, and everything cleans up with water.</p>                      |
| <p><b>Freeze/Thaw and Chloride Resistant</b></p>              | <p>Phoscrete repairs are highly resistant to freeze/thaw cycling, salt-scaling, and is resistant to spalling caused by drastic weather changes. Phoscrete exhibits low chloride ion penetration with negligible soluble chloride content. <a href="#">Learn more...</a></p>                                                                                                         |
| <p><b>No Primers<br/>No SSD<br/>No Outgassing</b></p>         | <p>Phoscrete installs onto clean, dry concrete surfaces. No waiting to install primers or saturate the surface prior to installation. With the ability to install sealants immediately without sandblasting to the finished face, <b>Phoscrete is often the lowest in-place cost</b> concrete repair solution. <a href="#">Learn more...</a></p>                                    |
| <p><b>All Season Use</b></p>                                  | <p>Because the freezing point of the Liquid Activator is -10°F, Phoscrete F1 can be installed in sub-freezing environments. Phoscrete F1 works well and sets fast in temperatures as cold as -5°F. Phoscrete F1 and F3 formulas work great even in the heat of summer. <a href="#">Learn more...</a></p>                                                                            |