

# PHOSCRETE LPB CONCRETE FOR RAPID OVERLAY PERMANENT REPAIRS

Advanced Material Technologies Pty Ltd

PHOSCRETE LPB CONCRETE FOR ALL CIVIL AND INDUSTRIAL PAVEMENT REPAIRS, RAPID CURE, NO DRY OUT, SUPERIOR STRENGTH AND DRIVE OVER 1-4 HOURS AFTER REPAIR IS COMPLETE!

Phoscrete Concretes chemically bond both to itself and to existing substrates. During the exothermic reaction between our dry aggregate (technical grade magnesium-alumina) and the Liquid Activator, ionic-bonding occurs to form alkali earth metal-oxide phosphates. This high-strength chemically-bonded compound insures both coherence and adherence and is therefore extremely durable in high stress environments.

**Rapid Return To Service Phoscrete** - is a rapid curing, high-early-strength material. Within one hour following placement Phoscrete attains high compressive strengths, allowing the surface to be opened to heavy duty rubber tyre traffic in 1-4 hours.

**No Cold Joints** - because Phoscrete chemically bonds to existing poured concrete, partial depth repairs achieve faster results using less

labor, material, and waste than full slab replacement.

**Zero Shrinkage Cracking** - Unlike other concrete repair products that don't last long in harsh environments, the Phoscrete Binder System responds to occurring strains by tensile deformation and does not crack; as demonstrated by the ASTM C1581 Ring Test.

**Freeze/Thaw Resistant** - Phoscrete repairs are highly resistant to freeze/thaw cycling and drastic weather changes as indicated by its very low porosity combined with its chemical bond.

**Chemical Resistant** - Phoscrete is resistant to alkaline materials, including heavy concentrations of salt water as demonstrated by its excellent Chloride Ion Penetration test results.

**Heat Resistant** - Phoscrete formulations are available that resist continuous operating temperatures above 260°C and intermittent temperatures above 815°C.

**Stops Rust On contact** - Phoscrete converts iron oxides (rust) to metal phosphates, eliminating existing rust from reinforcing steel, and inhibiting further corrosion.

**Easy and Accurate Mixing** - Phoscrete a pre-measured, two component (bag and jug) system that insures accurate and consistent mixing from batch to batch.

**Self-Consolidating** - Phoscrete reduces the labor required for leveling and finishing. Phoscrete forms a smooth and flush surface that blends with the existing concrete surface.

**All Season Use** - Phoscrete can be installed in temperatures ranging from -26°C to +40°C. Because the freezing point of the Liquid Activator is -30°C, Phoscrete works well and sets fast even in sub-freezing temperatures.