



# DynaCrete® 2-Product System Application Instructions

**Product:** DynaCrete 2-Product Concrete Preservation System

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## The DynaCrete® 2-product Concrete Preservation System

Advanced Concrete Protection Solution for Lasting Durability and Sustainability

### Why apply the DynaCrete® 2-product System?

Let's start with a "DynaCrete® treated concrete" versus non-treated concrete:

PIM+ or PIM+ Type S with a PTS+ topcoat

Concrete Treated with DynaCrete®	Standard, Untreated Concrete
Waterproof concrete	No waterproof concrete
Up to 98% vapour-proof concrete	No vapor proofing
Minimum 1500 PSI harder	No hardness increases
Greatly reduces damage from acids and salts	No resistance to acids or salts
Traps bacteria under glass impregnated layer	No barrier to wicking bacteria
Traps chlorides under glass impregnated layer, stops new barn syndrome	No barrier to dissolved chloride salts
Bead-up surface is much easier to clean	No easy-clean surface
Less time/labour/materials means money saved	No change to cleaning costs
PIM+ treatment prior to applying epoxies ensures no air wicking up under the epoxy	No benefit

## Material costs for the 2-product DynaCrete® system

DynaCrete® PIM+ or PIM+ Type S with PTS+ overlay is less than a dollar per square foot.

- The DynaCrete® 2-product system will ensure these concrete or cement-based surfaces either stop deteriorating or maintain their original condition
- DynaCrete® reduces future maintenance costs for material costs and labour
- The DynaCrete® 2-product system reduces deterioration of the concrete, caused by rain, water, pressure washing acids and salts
- DynaCrete® treated concrete will resist wear from equipment and make cleaning quicker and less costly

## The "GO GREEN" Momentum Becomes a Competitive Advantage

Everyone cares more and more about the world we are going to leave to our children. To be GREEN has become synonymous with caring for our environment and the world we will leave to our children. To incorporate where possible, GREEN technology has many positive benefits: workers' health, animal health, peace of mind. Most of all, it makes us feel good to know we are no longer being part of the problem, but we are being part of the solution. The DynaCrete® Concrete Preservation System is composed of completely GREEN, zero VOCs, non-toxic; water based, ecologically and environmentally friendly products.

## How standard concrete changes after treatment with the DynaCrete® 2-product System

Concrete is a brittle sponge. All concrete is alkali (salt) crystal based. These alkali crystals give concrete its strength. These alkali crystals are water-soluble, and as a result, standard concrete is continuously, slowly deteriorating from being flushed with rainwater, or worse, being pressure washed. Being a brittle sponge, concrete also absorbs water saturated at times with chlorides and other contaminants. Salts, while dissolved in water, will penetrate concrete and when the water evaporates, the salt crystals formed with all the excess salt are now too large for the old voids in the concrete. This causes the surface of the concrete to flake or spall off the surface.

- The benefits imparted when the DynaCrete® 2-product system is applied are provided by the silicate crystals formed by the PIM+ or PIM+ Type S in the concrete and the super-hard coating provided by the PTS+
- These PIM+ or PIM+ Type S crystals are totally non-water-soluble, and the concrete is now to the depth the PIM products penetrated is as much as 1500 psi or more harder than with alkali salt crystals
- This concrete will now resist deterioration from rain, pressure washing, and wear due to abrasion
- The DynaCrete® 2-product system will not allow any liquids, oils, or salts to penetrate
- DynaCrete® PIM+ or PIM+ Type S adds 1500 psi or more to the hardness of your concrete. This greatly reduces wear due to abrasion from equipment

## Application Information

DynaCrete® works best as a two-product system: Why? Because all liquids, including farmyard acids; uric, lactic, anaerobic, etc., clean up easier off a surface that doesn't even get wet! With a DynaCrete® PTS+ topcoat, all liquids will bead up, run off, and wipe off. Cleaning will be easier, take less time, and use less cleaning chemicals. You will save money at the same time as your concrete surfaces are lasting longer. NOTE: Always read this shortened version instruction sheet together with the full instructions on the DynaCrete® PIM+, PIM+ Type S, and PTS+ Specification sheets.

### **Step 1. DynaCrete® PIM+**

### **Step 2. DynaCrete® PTS+**

### **Maintenance**

While PIM+ and PIM+ Type S are internal densifiers and permanent, PTS+ is a top coating, and abrasion does wear it off over time. You can easily check by pouring a little water on the surface; if it still beads up, you are fine. If instead the concrete gets wet and darkens under the water, and does not bead up, clean the surface and reapply.