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Why apply the DynaCrete 2-product System?

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

DynaCrete 2-product system treatedVersus.....Non-treated concrete

- | | |
|---|--|
| - Waterproof, acid proof concrete..... | No waterproof acid proof concrete |
| - Up to 98% vaporproof concrete..... | No vapor proofing |
| - Minimum 1500 PSI harder..... | No hardness increases |
| - Greatly reduces damage from acids, salts..... | No resistance to acids or salts |
| - Traps bacteria under glass impregnated layer..... | No barrier to bacteria in the concrete |
| - 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 the epoxy's bond..... | No benefit |

Material costs for the 2-product DynaCrete system:

DynaCrete 2-product system (PIM+ or PIM+ Type S with PTS+ topcoat, costs from 40 to less than 60 cents per square foot.

- The DynaCrete 2-product system will ensure these concrete or cement-based surfaces either stop deteriorating or maintain their original condition.
- The DynaCrete 2-product system ensures lower maintenance costs for materials and labour.
- The DynaCrete 2-product system reduces deterioration of the concrete, caused by uric acid in barns, anaerobic acid in silo's, lactic acid in milking parlors, even deterioration from pressure washing.
- The DynaCrete treated concrete will resist wear from equipment and make cleaning quicker and less costly.

Please note: For example: In 1997 earlier versions of our PIM+ Type S and PTS+ were applied to over 20,000 sq. feet of new concrete floors at the Fanny Bay Oyster plant. This plant runs 24/7. After 10 years of traffic from forklifts and pallet jacks while being flushed 24/7 with seawater, there was no apparent wear to the concrete.

DynaCrete® gives standard 25 mpa concrete the same internal hardness and waterproofing of silica fume concrete.

The DynaCrete® 2-product system utilizes the same ISO 14001:2000 certified products DynaCrete® has supplied to the BC Ministry of Highways to PERMANENTLY preserve and protect over 3 million square feet of BC bridge decks since 1997. Tested after 20 years, permeability was still the same as when it was treated 20 years ago, and wear where the tires meet the concrete pavement was between 1 and 3 mm!

A summary of the impressive permeability and wear tests conducted on bridge decks after 20 years is available.

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**, non-toxic; water based, ecologically friendly products.

Where to use which types of DynaCrete

DynaCrete® PIM+ Type S

- penetrates up to 10 mm or more
- on all concrete and cement-based products
- on all surfaces subject to wear due to abrasion
- under secondary coatings

DynaCrete® PIM+

- penetrates up to 2 mm, but when cured, makes a smaller, harder glass crystal than PIM+ Type S.
- especially designed for stopping efflorescence bleed or bloom, caused by moisture travelling through concrete, emulsifying the alkali salts, which are then brought to the surface by evaporation leaving the white, efflorescence to accumulate on the surface of the concrete, split-face block, paving stones, or concrete retaining walls, etc.
- **superb as a primer** under all secondary coatings; DynaCrete PTS+, epoxies, etc.,
- on vertical surfaces
- on exposed aggregate.

DynaCrete® PTS+ is applied:

- apply a minimum 3 days after the application of PIM+ or PIM+ Type S
- PTS+ will bond to the PIM+ Type S or PIM+ treated concrete, providing a hardwearing, bead-up, easy-clean surface.
- as a protective topcoat on any surface PTS+ does not bead up on.

- All these products are invisible after curing.
- PIM+ and PIM+ Type S can be walked on when wet and during drying and the 3-day curing period.
- PTS+ must be dry at minimum before foot traffic, and cure for a minimum 24 hours before vehicle traffic

**PIM+ and PIM+ Type S are silicate based, totally safe, for the applicator, plants, or animals, even if they lick it!
PTS+ is a silicone base, i.e., still totally safe, but, not good for licking!**

How standard concrete changes after treatment with the [DynaCrete® 2-product System](#)

Concrete is a brittle sponge. The voids in concrete are filled with alkali (salt) crystals. These alkali salt 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 water, or worse, being pressure washed, and as the water re-emulsifies the alkali salt crystal and evaporates, the alkali salt crystals are brought to the surface in the water and are no longer holding the concrete together. The result; the surface of the concrete washes away, exposing the rocks in the concrete.

Concrete, being a brittle sponge, absorbs water, sometimes this water is saturated with chlorides and other contaminants. Salts while dissolved in water, will penetrate concrete and when the water evaporates, the salt crystals formed in the internal voids of the concrete, are now too large for the old voids in the concrete. This causes the surface of the concrete to “pop off” or spall off the surface, exposing the underlying rocks.

- The benefits imparted when the DynaCrete® 2-product system will stop this deterioration.
- The silicate/glass crystals formed by the PIM+ or PIM+ Type S in, not on, the concrete, and the super-hard topcoat provided by the PTS+ extend the life of your concrete surfaces.
- These internal PIM+ and PIM+ Type S silicate/glass crystals are totally non-water-soluble
- The concrete to the depth the PIM+ or PIM+ Type S penetrated is now as much as 1500 psi or more harder.
- This concrete will now resist deterioration from acids, rain, pressure washing, and wear due to abrasion.
- The DynaCrete® 2-product system will not allow any liquids, oils or salts to penetrate.
- The DynaCrete® will now greatly reduce wear due to abrasion from equipment.
- The DynaCrete 2-product system costs 40 to 60 cents per square foot.
- The DynaCrete PIM+ and PIM+ Type S being in, not on, the concrete are permanent.
- The DynaCrete PTS+ is long-lasting, but can be reapplied if necessary, for as little as 20 cents per square foot.

Application Information

Available on request