

# Cornerstone Coatings

## Problem Free Concrete

### Protec III LSF Chem-RX

## TESTIMONIALS

"I love this stuff...we have no shale pops or shrinkage cracks, not like we used to have with the curing compounds or cure and seals we used to use."

Harold's Concrete  
Saskatchewan

... Protec III slows down the cure and increases the psi, and I don't have to worry about peeling.

LG Concrete  
Saskatoon, SK

"... the concrete (warehouse floor) no longer dusts, the product makes the concrete reflect light extremely well, and it is easy to keep clean."

Isaac Hiebert  
GrandWest Enterprises Inc.  
Saskatoon, SK

..."We are pleased with the results, this is a very good product."

Doug Mitchell Vice President  
The Rent-It Store  
Saskatoon, SK

..." Protec III has been very successful in halting any further deterioration.."

Michele Cruise-Pratchler, R.M.A.  
Administrator

With the rapid changes in mix designs of concrete, there isn't much predictability for the contractors from one pour to another. The equalizing factor that can ensure the contractors have problem-free concrete every time is by using Protec III LSF Chem-RX. It takes the guesswork out of concrete, and solves the problems before they even appear. Most issues are a result of weak bonds formed within the concrete during the curing process. When these weak bonds are strengthened by using Protec III LSF Chem-RX, high density problem-free concrete is the result.



*If you could drastically reduce all the worries and problems of finishing concrete....would you?*

# Q&A

## Protec III LSF Chem-RX

***What type of concrete can I put this on?***

Use Protec III Chem-RX on new or old concrete. You can apply Protec III Chem-RX to power trowel concrete for warehouse floors, parking aprons, garage pads, sidewalks, driveways, arena slabs, parkades and much more.

***What can I do to dust-proof my concrete?***

What you will use depends on how badly the concrete is dusting. For lightly dusting concrete, use Protec III Chem-RX. For severe carbonation or dusting, use Protec III Restore which is the ideal product for that application.

***Will Protec III Chem-RX make my floor shiny?***

Initially, on most concrete it will not. Protec III Chem-RX is a penetrable sealer and not a surface membrane like acrylics, urethanes or epoxies. For power trowel surfaces with wear from high traffic, the floor will polish up to a shine.

***Can I seal my concrete without it being slippery when wet?***

Yes, you can. Protec III Chem-RX will NOT make your floor slippery when wet. Protec III Chem-RX does not create a surface membrane like acrylics, floor paints, urethanes or epoxies which are definitely slippery when wet.

***Curing of concrete is important to having good concrete, what is the best product to use?***

Most contractors use Protec III Chem-RX as a curing aid because it does not form a membrane on the surface of the concrete which can cause concrete popping in bad aggregate locations. Using Protec III Chem-RX as a curing method slows down the moisture evaporation rate without locking too much moisture into the concrete. This produces stronger more durable concrete. Contractors find that using Protec III Chem-RX on freshly poured concrete will virtually eliminate the popping and surface shaling that used to happen when applying other forms of curing materials such as acrylic cure and seals or green cures. Protec III Chem-RX has 0 VOCs, and is safe to use for the contractors without having to deal with the dangerous, highly flammable fumes of the typical cure and seals. Health and safety inspectors have completely shut down projects because the contractors were not equipped properly when using the flammable cure and seals. This will never happen with Protec III Chem-RX.

***I'm using dry shake hardeners now, and it is getting almost impossible to incorporate them properly into the concrete surface, is there anything better out there that is safe to use?***

Protec III Chem-RX is proven to work with all types of concrete mix designs as a surface hardener. Other liquid hardeners and dry shake hardeners are labor intensive and more expensive not only in the initial cost of the product but with the associated costs of health and safety and the disposal of hazardous waste of the liquid hardeners. Contractors are finding that Protec III Chem-RX eliminates the problems they were having with surface delaminations when using dry shake hardeners.

***Will Protec III Chem-RX work with colored concrete?***

Yes, it will. We recommend waiting a minimum of 3 days before applying Protec III Chem-RX to colored concrete to harden and densify it.

***What do I use to protect my broom finished driveway?***

Protec III Chem-RX is recommended for all new driveways. Apply this product once the bleed water has evaporated for an effective curing aid and hardener. This will make your concrete more resistant to freeze thaw damage and concrete popping. Apply the 2nd coat once the first coat has soaked in.

***What can I use to stop my concrete from popping?***

We have seen a decrease of over 90% as a result with the simple use of one application of Protec III Chem-RX as a curing aid.

# Q&A

## Protec III LSF Chem-RX

***Is Protec III Chem-RX compatible with flooring adhesives?***

Yes, it is. The reason it is an ideal product for flooring adhesives is because it dust-proofs the surface and it does not leave a surface membrane. If you have a product that leaves a surface membrane, the surface membrane is what the flooring adhesive will adhere to - not the concrete. Once that surface membrane lets go, you are guaranteed to have problems with your flooring. By using Protec III Chem-RX you eliminate the high costs associated with the removal of surface membranes or coatings before the floor installation. Another common practice is not applying any product to the floor which commonly results in dusting problems for the flooring contractor. Protec III Chem-RX is the ideal product for remedying both flooring problems.

***Can Protec III Chem-RX be applied over another coating?***

No, it cannot. This product has to penetrate into the concrete so before application of Protec III Chem-RX you need to remove all coatings.

***Why am I now having problems with dry shake hardeners?***

With the increased use of super plasticizers (water reducers), fly ash, retarders and other additives, today's concrete has become increasingly incompatible with dry shake hardeners. Dry shake hardeners need moisture to work properly. The less moisture required in today's concrete inadvertently affects the proper incorporation of dry shake hardeners into the surface creating havoc for the contractor.

***Do I need certified installers or special equipment for Protec III Chem-RX?***

No, you do not. We designed Protec III Chem-RX to be easy to apply without special equipment or training. Protec III Chem-RX keeps the cost down for installation and because it can be applied easily by the concrete contractor, it keeps the subcontractors (certified installers) off your concrete floor. This gives the contractor more control over their projects. If certified installers are required and they are not in your local area or available - project managers, engineers and architects are now dealing with time constraints and increased costs for the project to be completed properly.

***I've been told that concrete doesn't need to be sealed, is this true?***

All concrete must be sealed. We've heard this statement periodically over the years and then one year later these same people ask how can they fix their shaling and popping concrete. Back 40 to 50 years ago, when they had proper curing practices in place without any of the additives and admixtures currently being used in concrete mix designs, sealers were not as necessary. That was a generation ago and is not today's reality.

***What will Protec III Chem-RX do for my garage floor?***

Protec III Chem-RX will protect your floor from shaling and peeling from freeze thaw damage. Damage shows up where the overhead door comes down to the concrete pad and where you park your vehicles. Typically this takes only one winter of freeze thaw cycles to happen. Years ago when we used to apply the product on garage pads, we found where the overhead door was, Protec III Chem-RX would soak in immediately from the opening and back 5 to 6 feet. The rest of the concrete would take its normal time to soak in. This showed us how fast water and road salt could penetrate the concrete and cause damage and how important it was to apply the Protec III Chem-RX to protect the concrete floor from this environment.

***Can I use Protec III Chem-RX on arena slabs?***

Yes, all arena slabs should use Protec III Chem-RX. Protec III Chem-RX hardens and densifies the concrete and stops damage from freeze thaw cycles leaving you a nice smooth dust-free surface.

# Q&A

## Protec III LSF Chem-RX

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**Why do engineers specify Protec III Chem-RX into their projects?**

Engineers specify Protec III Chem-RX into their projects because it is an economical trouble-free hardener and curing aid for warehouse floors that has extensive ASTM Test Results. This product meets the LEED requirements for a cure and seal and hardener.

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**Why do architects specify Protec III Chem-RX into their projects?**

Architects specify Protec III Chem-RX into their projects to dust-proof and make the floor easy to clean. With wear and tear this product produces a shine which increases light reflection for warehouse floors. This product meets the LEED requirements.

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**Does Protec III Chem-RX meet the LEED requirements?**

Yes, it does.

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**What can I do to make my concrete chemical resistant?**

Apply one to two coats of Protec III Chem-RX to concrete for chemical resistance. Typical application for harsher environments require 3 coats.

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**Is Protec III Chem-RX VOC Compliant?**

Yes, Protec III Chem-RX has no VOCs. A common assumption is that water based products are safe to use, but most water based products have VOCs. VOCs in most water based products are more unsafe to use than solvent based VOCs because they are water soluble and can enter the body more readily through handling.

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**How does Protec III Chem-RX compare to other liquid hardeners with ease of application?**

Protec III Chem-RX was designed to be easy to apply without the need of certified installers. Other liquid hardeners tend to have a larger molecule size which requires scrubbing, re-emulsifying and removal of excess product which will not penetrate. This is a very costly procedure with labor and disposal of hazardous waste. Protec III Chem-RX has a very small molecule size which does not require scrubbing, re-emulsifying and removal of excess product because it has a high rate of penetration.

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**What is the price of Protec III Chem-RX per square foot?**

Protec III Chem-RX is approximately 6 cents per square foot per coat.

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**Is Protec III Chem-RX food safe?**

Yes, this product is approved food safe by Agriculture Canada.

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**How do I apply it?**

Protec III Chem-RX requires no special equipment, you can either spray or roll the product on. If the product forms puddles, remove them by rolling the product to a dryer area. Concrete floors are not perfectly flat, puddles may form in uneven areas.

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**How do I maintain a floor treated with Protec III Chem-RX?**

Use a neutral to high pH detergent to clean the floor. Clean spills immediately. See the Technical Data Sheet for complete maintenance program.

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**What is that white powdery stuff on my concrete?**

It is likely efflorescence which is a salt which comes from ground water and migrates through the concrete and destroys it. Protec III Chem-RX will help reduce that. Efflorescence is usually associated with water problems.

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**What is your warranty?**

Replacement of defective product.

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**How do I do a simple test to see how hard Protec III Chem-RX makes my concrete?**

Apply two coats of Protec III Chem-RX to a 1 square foot area. Let this dry overnight. Use a file to abrade the treated and untreated concrete to compare the difference in hardness. This will be a quick indication in the increase of hardness.

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**Can I coat over a surface treated with Protec III Chem-RX or Protec III Restore?**

Yes, you can apply Premium Acrylic and other floor coatings over top of Protec III Chem-RX and Protec III Restore. You should not apply any floor coating over Protec III LSF with Acrylic Membrane.