

# SPEC-DECK

## Proven! Concrete Resurfacing System

Spec-Deck is an attractive and proven method for resurfacing or re-finishing old concrete both interior or exterior areas into exciting new-looking surfaces. Spec-Deck may be applied on driveways, side walks, patios, steps, pool decks and retail floor areas. Spec-Deck is a unique cement based material composed of Portland cement with a formulation of acrylic and latex resins. Spec-Deck bonds with concrete as well as other surfaces to create a tough, yet flexible surface.



Spec-Deck improves the appearance of many surfaces. Spec-Deck can be applied in one or a combination of colours, smooth or textured, with an unlimited number of custom patterns. Your imagination is the only limit! Spec-Deck can be sprayed or trowelled, providing a stronger and more resilient surface than portland cement concrete. Spec-Deck is resistant to staining, water, salts and oils.

Spec-Deck has been specifically formulated to stand up to the freezing cold of winter and the searing heat of summer. Spec-Deck offers the advantages of beautifying old concrete at a fraction of the cost of replacement. Spec-Deck is easy to maintain. Just wash with soap and water to remove oil stains.



## THE SPEC-DECK SYSTEM

Spec-Deck consists of three products: Spec-Deck Powder (dry bag mix), Spec-Deck Resin and Spec-Deck Sealer. The specially formulated powder is mixed with a liquid resin and then sprayed or trowelled on, and then is sealed with the Spec-Deck Sealer.

Existing cracks in the concrete surface should first, prior to acid washing, be repaired. New expansion joints if required are installed prior to surface cleaning.

The concrete surface to be covered with Spec-Deck is first prepared by acid washing. Wash, using dilute muriatic acid, and rinsing thoroughly. High pressure washing techniques, if necessary, may also apply. As a result of the acid wash, low spots in the surface will be identified. Installation begins by leveling these areas with Spec-Deck using a straight edge and then feathering down the edges. Prime surface with Spec-Deck Resin allow to dry.

Spec-Deck powder is then mixed proportionately with the resin in a pail using a drill and paddle. Colouring, if selected, is added to the wet mix at this time.

Spec-Deck materials are generally sprayed on using an air compressor and a drywall hopper gun. Suggested air pressure is between eight (8) to twenty-seven (27) psi. Since the air pressure setting can be regulated and the nozzle on the hopper gun face is variable, many alternative designs and techniques can be achieved.

As the material begins to dry, one technique used is to trowel the surface lightly. This is the "straight lace" technique. Other trowelling methods may be employed to create other styles; hand crafted brick, keystone, natural stone, and tile designs, patterns are created using tape or stencils. Several finished styles can be achieved simultaneously.

Spec-Deck High Gloss Sealer is applied, after the surface dries. Multiple colouring effects, using chemical stains, can also be used allowing a unique, one-of-a-kind installation.

After the sealer dries, usually 1 - 2 hours, you are free to walk on the surface. Vehicles may be driven, and the furniture can be placed on the surface after a 48 hour cure. Spec-Deck's final curing to reach maximum effectiveness is similar to all other cement products and will take place over twenty-eight days.



Check out the before and after...  
Imagine what Spec-Deck can do for you!



Manufactured by:

**CS Con-Spec Industries Ltd.**

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[www.conspecindustries.com](http://www.conspecindustries.com)

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Mobach Decorators





Mobach Decorators





Mobach Decorators





**MWS Concrete Systems Ltd.**





**MWS Concrete Ltd.**





**Stencil Systems Canada**



## THE SPEC-DECK SYSTEM

Spec-Deck consist three products: Spec-Deck grout (dry bag mix), Spec-Deck Resin and Spec-Deck sealer. The specially formulated grout is mixed with a resin and then sprayed or trowelled on the surface, and then is sealed with the Spec-Deck sealer.

Existing cracks in the concrete surface should first, prior to acid wash, be repaired according to industry guidelines. New expansion joints if required are installed prior to surface cleaning.

The concrete surface to be covered with Spec-Deck is first prepared by acid washing. Wash, using a dilute muriatic acid solution then rinse thoroughly. High pressure washing is recommended.

As a result of the acid wash, low spots in the surface will be identified. Installation begins by leveling these areas with Spec-Deck using a straight edge and then feathering down the edges with a rubbing brick. A prime coat of Spec-Deck resin is then applied

Spec-Deck grout is then mixed proportionately with the resin in a pail using a drill and paddle. Colouring, if selected, is added to the wet mix at this time.

Spec-Deck materials are generally sprayed on using an air compressor and a drywall hopper gun. Suggested air pressure is between eight (8) to twenty-seven (27) psi. Since the air pressure setting can be regulated and the nozzle on the hopper gun face is variable, many alternative designs and techniques can be achieved.

As the material begins to dry, one technique used is to trowel the surface lightly. This is the “straight lace” technique. Other trowelling methods may be employed to create other styles; hand crafted brick, keystone, natural stone, and tile designs, patterns are created using tape or stencils. Several finished styles can be achieved simultaneously.

Con-Spec High Gloss Sealer is applied, after the surface dries. Multiple colouring effects, using chemical stains, can be used allowing a unique, one-of-a-kind installation.

After the sealer dries, usually 4 hours, you are free to walk on the surface. Vehicles may be driven on, and the furniture can be placed on the surface after a 48 hour cure. Spec-Deck's final curing, to reach maximum effectiveness is similar to all other cement products and will take place over twenty-eight days.

**1-800-295-5569**

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Seller warrants that the product described on the face hereof has been manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer shall be responsible for any claims resulting from the failure to utilize the product in the manner in which it was intended and in accordance with instructions provided for use of product. The only obligation of either the seller or manufacturer shall be to replace any quantity of this product which proved to be defective. Neither seller nor manufacture assumes any liability, loss, or damage resulting from use of this product.



# SPEC-DECK INSTALLATION GUIDE

## **SURFACE PREPARATION:**

It cannot be said too often. No matter how good a floor protection system is, if the floor surface is not properly prepared, the coating system will fail. All contamination must be removed, including efflorescence, dirt, paints and coatings, hardeners, sealers, grease, and oil.

Too often, floors are prepared only by mechanical means because many contractors are reluctant to pay the cost or take the time to perform additional and necessary, chemical cleaning. Often an owner or engineer specifies only mechanical cleaning. Or a narrow time frame is allotted for the floor to be cleaned, coated, and put into service, leaving only enough time for one surface preparation method.

In many cases, mechanical scarification is the best first procedure for removing a thick buildup of contaminants that have been ground into the concrete by vehicle traffic. In extreme cases, this buildup can be as thick as  $\frac{3}{8}$  inch. Scarifiers have round, pointed teeth mounted on a rotating drum that can cut through the thick buildup.

Shotblasting the floor is an excellent way to roughen the surface and open the pores of the concrete. If the floor contaminants contain little oil and grease, the floor may be ready for coating after shotblasting.

However any hard trowelled surfaces or very smooth surfaces must be roughened up prior to application. This includes the steel trowelled edges and control joints.

If a concrete floor has been exposed to any type of oil or grease, chemical cleaning methods must be used. This is the only way to remove the oil and grease from the pores of the concrete. If the floor contains only light saturation of oil and grease, scarifying is not recommended, but we do recommend shot blasting to provide a surface on which the chemical cleaners will perform better.

### **Chemical cleaning**

In extreme cases, the buildup of contaminants is so hard and compacted that you may want to use Con-Spec Grease & Spot Remover (GSR) to soften the

contaminants before scarifying the floor. Pour a thin layer of GSR on the floor, scrub it into heavily soiled areas, and allow it to sit for 15-45 minutes before power washing.

After scarifying and shotblasting the floor and removing all dust and debris, degrease the floor with Grease & Spot Remover. This solution penetrates the pores of the concrete and emulsifies the oils. Use hot water if it's available. Pour the solution onto the floor and spread it with a squeegee. The coverage rate depends on the amount of contaminants on the floor, but 100 to 400 square feet per gallon is usually suitable. Use a rotary scrubber to work the solution into the concrete. Allow 15 to 45 minutes for the solution to emulsify the oils before flushing the surface with water and removing the solution with a wet vacuum.

Next, acid etching of the concrete floor is required. Mix one part of 20° Be hydrochloric (muriatic) acid with two parts water. Always add the acid to the water - never add water to the acid. Adding water to the acid generates too much heat. Pour the solution onto the floor and spread it with a squeegee. A coverage rate of 100 square feet per gallon of solution should be adequate. When bubbling of the acid stops, flush the floor surface with clean water and remove the solution with a wet vacuum.

If working where food may be subjected to the vapours of the hydrochloric acid or where the acid may come in contact with metal, use a solution of one part 85% food grade phosphoric acid instead of hydrochloric acid, and mix it with two parts clean, potable water. Follow the same procedure that is used with the hydrochloric acid.

Following the acid wash, remove the remaining water with a squeegee or wet vacuum. If hot water or steam cleaning has been used throughout, the floor should be clean. However, if there are areas of the floor where contaminants have not been removed or where water continues to bead, repeat the acid wash procedures. If the problem persists, propane torching of the areas may be needed. Propane torching requires special equipment that draws oils and other impurities to the surface and incinerates them. When using this equipment, take all



the precautions necessary when working with open flames, including having a fire extinguisher nearby. After propane torching the area, spot clean the area by repeating the hydrochloric acid cleaning procedures.

The last step is to neutralize the remaining acid with diluted TSP. Thoroughly scrub the TSP into the surface, then flush the floor with clean water and remove the solution with a wet vacuum.

### **Employee safety**

The chemicals described above are all hazardous to varying degrees. Hydrochloric acid, and phosphoric acid are very dangerous. Before using the chemicals, study all Material Safety Data Sheets and bring them to the jobsite. Protective clothing to be worn by all employees includes a respirator, goggles, rubber gloves and boots, and chemical resistant clothing. Proper ventilation of the work area is mandatory, stress the importance of safety to all employees.

### **Disposing of the chemicals**

Do not flush solvents, caustics, and acids into the public sewer system. Nontoxic, biodegradable industrial detergents can often be flushed into the sewer system, but take nothing for granted. Remove all chemicals from the floor with a wet vacuum and consult with the safety personnel or local authorities to find out the proper disposal methods.

### **CRACK REPAIR:**

Crack repair is crucial to the success of your job. If all else is done properly but crack repair is not completed correctly then cracks may appear and ruin a great looking job.

The first step is to ascertain if the crack is a moving or non-moving crack. If it is a non moving crack caused by shrinkage or the concrete sinking then cracking it can be repaired. If the crack is a moving crack then it can not be "repaired", but must be left "open". If the crack is a random moving crack then you may have to create a moving control joint before "repair" this type of crack. If possible try to incorporate any moving joints into your pattern or design.

### **Non-Moving cracks**

Pressure wash or use a crack chaser to clean the crack. Ensure the crack is clean and dry before continuing.

Use a low modulus epoxy material to fill the crack. Do not apply the epoxy to wet surfaces. **The concrete must be dry** for proper adhesion to take place.

Allow the epoxy to cure to a slightly tacky state before applying the Spec-Deck grout. Skim over top of tacky not wet epoxy material to create a chemical and mechanical bond. Skim coat of grout will crack, this is normal.

After skim coat has dried use a rubbing brick to stone smooth any rough spots and edges.

### **Moving Cracks**

If necessary cut a relief joint in the concrete to take the movement of the crack. Then fix the crack as above. For control joints or moving cracks power wash clean to full depth of slab. Seal with a urethane sealant and backer rod or bond break tape. When applying Spec-Deck along the control joint round off corners with a brick tool. By hand remove skim coat out of control joints, gently scrape and blow off.

**Do not guarantee any crack repair**, or cracking due to concrete substrate cracking.

### **PRIMING:**

Prime concrete floors using Spec-Deck Resin, apply at 200 square feet per gallon. Allow material to become tack free before application of the Spec-Deck. Do not allow to dry hard. If primer dries hard apply a second coat of primer. If surface is porous apply a second coat.

### **MIXING:**

Add six (6) liters of the Spec-Deck Resin to each 50 lbs (1 bag) of Spec-Deck powder in mixing pail. After thoroughly mixing, allow material to fatten for five (5) minutes in mixing pail. Agitate the material, adding small amount of Spec-Deck Resin to obtain consistency for spreading or spraying. If adding colour, carefully measure each colour to ensure uniform amount of colour is incorporated into each batch of Spec-Deck. Even small variations in colour volume may cause noticeable colour variations in the finished product.



## **SKIM COAT:**

After power washing, mark any low spots where water pools. Squeegee water off concrete. Using a thicker consistency of material, fill the low spots, using a straight edge and then feathering down the edges. Allow to cure, until you can walk on the patch without leaving any marks. Stone the edges to remove any rough spots or ridges that may have been created.

After priming apply the Spec-Deck. Using a trowel spread the skim coat evenly over the surface. Coverage should be approximately 125 square feet per 50 lbs of Spec-Deck grout. Pot life is approximately 1 hour.

When applying Spec-Deck against a building. Do not allow grout to bind against building, then chip off. Scrape edge with edge of trowel to a vee shape at the building slab joint.

By hand remove skim coat out of control joints, gently scrape and blow off.

## **CREATING A TAPE PATTERN:**

After the skim coat has taken a final set you can use a variety of methods to create any pattern you desire. These patterns can be created with filament tape or stencils.

Always measure out the distances to ensure that a uniform and square pattern is created.

If installing a logo or art work into the design apply a second skim coat where the art work will be created, using the colour or colours that you wish the art work to appear in. After the second skim coat has dried place the art work stencils on the selected area and use small weights to hold the stencil in place for the spray coat.

## **SPRAY COAT:**

The second and subsequent coats may be applied by spray. A trowel, roller or squeegee can also be used for different textures.

Always paper and protect all wall surfaces or greenery from any overspray. Cover the inside edges of the floor

area also to protect from overspray. Start by spraying the brick edges first. Spray the material using a drywall hopper gun. The air pressure should be between 8 to 27 psi. Since the air pressure and spray nozzle on the hopper gun are variable, many alternate design techniques can be achieved.

After spraying and once the material begins to dry, a steel trowel can be used to create a "straight lace" effect.

After the spray coat(s) have been applied, and dried enough that you can walk on the grout without leaving any marks, you may apply any highlights. Always apply the highlights from lightest to darkest; usually a minimum of two will be used.

After the Spec-Deck has taken its initial set and you are able to walk on it without leaving any marks remove any tape and stencils, revealing the pattern created.

## **SEALING:**

Allow a minimum of 24 hours, before application of the first coat of sealer.

### **Low Traffic Areas**

Con-Spec High Gloss sealer should be used on residential projects and other areas that are not submitted to high traffic volumes and abuse. Apply the first coat of Con-Spec High Gloss sealer at a rate of 200-400 square feet per gallon. Allow a minimum of 4 hours after the first coat before the application of the second coat, using a rate of 100-200 square feet per gallon. Let cure for 24 hours before opening to light foot traffic, 72 hours for heavy traffic.

### **High Traffic Areas**

In areas of high traffic volumes or areas subject to abuse a clear non-yellowing epoxy sealer is recommended with a top coat of high solids non-yellowing urethane for its superior abrasion and mar resistance. The number of coats of epoxy sealer is dependent upon the surface and what type of finish the customer is looking for. Two coats of epoxy is recommended. Apply the epoxy sealer at a rate of 160 square feet per gallon. Allow to dry for 24 hours before applying a polyurethane topcoat. Apply the top coat at a rate of 115 square feet per gallon.





## SPEC-DECK

### DESCRIPTION:

Spec-Deck is a tested and proven concrete resurfacing material composed of a specially formulated Portland cement based material with an polymer emulsion system.

### USES:

It is extremely successful for resurfacing a variety of substrates such as walkways, pool decks, patios, concrete driveways and other applications. Spec-Deck is also a decorative and durable surfacing for new concrete surfaces. Spec-Deck may be applied indoors or outside.

### SURFACE PREPARATION:

The surface to be coated must be structurally sound and clean. As a rule, always repair unsound substrates before applying materials. The surface must be thoroughly cleaned of oil, grease, dirt, paint, and any loose material or other foreign matter. "Vee" out cracks, then fill with an epoxy and chopped fibre. Apply Spec-Deck grout over the tacky resin to create a chemical and mechanical bond, (skim coat will crack but this is normal). Remove laitance and cement particles by acid etching, (3 parts water to 1 part muriatic acid is typically sufficient). Flush thoroughly to remove any acid. Flood surface with water and mark any low spots. Power wash surface with 3000 psi water to thoroughly clean the surface of any remaining contaminants. Using the Spec-Deck Resin at full strength apply a uniform coat on the surface at 200 square feet per gallon for a prime coat. On porous surfaces apply a second coat. Allow primer to become tack free. If primer dries hard apply a second coat.

### MIXING:

Add six (6) liters of the Spec-Deck Resin to each 50 lbs bag of Spec-Deck powder in mixing pail. After thoroughly mixing, allow material to fatten for five (5) minutes in mixing pail. Agitate the material, adding small amount of resin to obtain consistency for spreading or spraying. Fill low spots by cutting back on liquid for a thicker trowellable consistency. If adding colour, carefully measure each colour to ensure uniform amount of colour is incorporated into each batch of Spec-Deck. Even small variations in colour volume may cause noticeable colour variations in the finished product.

### APPLICATION:

Using a thicker consistency of material, use a trowel to fill in any low spots. Allow to cure until you can walk on the patch. Apply first coat by trowel. Coverage should be 125 square feet per 50 lbs of Spec-Deck powder. Pot life of mix is approximately 1 hour. Pot life will decrease rapidly under conditions of high temperatures, low humidity, or high wind. After first coat has taken a final set use filament tape to create the desired pattern. Apply the second coat at 150 square feet per 50 lbs of material by spray, trowel, roller, or squeegee. After second coat has dried, apply subsequent coats as desired. After the last coat has dried remove filament tape. Spec-Deck should not be applied below 10°C (50°F).

### CURING:

After surface is dry, allow a minimum of 4 hours, preferably 24 hours before application of the first coat of Spec-Deck Sealer, at a rate of 200-400 square feet per gallon. Allow a minimum of 4 hours after first coat before the application of the second coat at a rate of 100-200 square feet per gallon. Let cure for 24 hours before opening to light traffic, 72 hours for heavy traffic.



## SPEC-DECK

### TYPICAL PHYSICAL STRENGTH PROPERTIES

	Unmodified Cement	Spec-Deck Modified Cement
<b>Tensile Strength, MPa (PSI)</b>		
28 Day Air Cure	2 (295)	5.7 (825)
28 Day Wet Cure <sup>1</sup>	3.7 (535)	
<b>Compressive Strength, MPa (PSI)</b>		
28 Day Air Cure	16.5 (2390)	55.7 (8100)
28 Day Wet Cure <sup>1</sup>	40 (5795)	
<b>Flexural Strength, MPa (PSI)</b>		
28 Day Air Cure	4.2 (610)	14.2 (2060)
28 Day Wet Cure <sup>1</sup>	7.4 (1070)	
<b>Shear Bond Adhesion, MPa (PSI)</b>		
28 Day Air Cure	0.3 (45)	4.6 (670)
28 Day Wet Cure <sup>1</sup>	1.3 (185)	

<sup>1</sup>Wet Curing Conditions:

- 1 Day at 25°C & 90% relative humidity
- 6 Days water immersion at 25°C
- 7 Days at 25°C & 50% relative humidity
- 7 Days water immersion at 25°C
- 7 Days at 25°C & 50% relative humidity

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# SPEC-DECK

## STEP BY STEP MANUAL

### SURFACE PREPARATION:

**Overview:** The surface to be coated must be structurally sound and clean. As a rule, always repair unsound substrates before applying materials. The surface must be thoroughly cleaned of oil, grease, dirt, paint, and any loose material or other foreign matter.



2) After the initial mechanical cleaning a proper degreasing of the concrete surface may be required if there is any grease or oil in the concrete. Prior to crack repair a proper acid etch and power washing of the concrete is necessary to remove any left over contaminants and ensure the concrete is clean to accept the Spec-Deck coating. In cases with adhesives on the surface, as above, it must be degreased and cleaned before shotblasting.



1) A thorough shot blasting or mechanical means of cleaning the floor is highly recommended.



3) Using the Spec-Deck Resin at full strength apply at 200 square feet per gallon as a prime coat. Allow to dry tack free. On porous surfaces apply a second coat.



# CRACK PREPARATION:

**Overview:** Sawcut cracks, then fill with an epoxy and chopped fibre. Apply Spec-Deck grout over the slightly tacky resin to create a chemical and mechanical bond, (skim coat will crack but this is normal).



1) Sawcut crack 1½" deep as a minimum. Clean crack with a high powered air pressure with tip at bottom of the crack to ensure that the crack is clean.



2) Use a low modulus epoxy to fill the crack and add chopped fibre. Do not apply to a wet surface. The Concrete **must** be dry for proper adhesion to take place.



3) Allow the epoxy to become slightly tacky. Apply the Spec-Deck by skimming over top of the crack. This will create a chemical and mechanical bond.



4) The skim coat of Spec-Deck will crack, but is normal. Grind the skim coat with a rubbing brick to remove any edges and rough spots so that the crack will not show through the main Spec-Deck coating.



## MIXING:

**Overview:** Add six (6) liters of Spec-Deck Resin to each 50 lbs (1 bag) of Spec-Deck powder in mixing pail. After thoroughly mixing, allow material to induct for five (5) minutes in mixing pail. Agitate the material, adding small amount of Spec-Deck Resin to obtain consistency for spreading or spraying. If adding colour, carefully measure each colour to ensure uniform amount of colour is incorporated into each batch of Spec-Deck. Even small variations in colour volume may cause noticeable colour variations in the finished product.



## SKIM COAT:

**Overview:** Using a thicker consistency of material, use a trowel to fill in any low spots. Allow to cure until you can walk on the patch. Apply first coat by trowel. Coverage should be 125 square feet per 50 lbs of Spec-Deck powder. Pot life of mix is approximately 1 hour.



1) After priming use a thicker consistency of material, to fill the low spots, using a straight edge and then feathering down the edges. Allow to cure, until you can walk on the patch without leaving any marks. Stone the edges to remove any ridges that may have been created.



2) Apply the first coat with a trowel. Coverage should be approximately 125 square feet per 50 lbs of Spec-Deck grout. Pot life is approximately 1 hour.



3) Using a trowel spread the skim coat evenly over the surface.



## CREATING TAPE PATTERN:

After first coat has taken a final set use filament tape to create the desired pattern.



2) Stencils may also be used to create many different patterns such as Brick, Cobblestone, Keystone, Ashlar, Herringbone, European Fan, Circles, Diamonds and may others.



1) Measure out area that will be taped to ensure a uniform and square pattern is created. Any pattern may be created, only time and imagination is required.



3) If installing a logo, apply a second skim coat in the area where the logo will be, using the colour that the logo will appear in.



4) Use small weights to hold the logo in place for the spray coat.



# SPRAY COAT:

**Overview:** Apply the second and subsequent coats, by spray. A trowel, roller or squeegee may also be used for different textures. Steel trowelling may be used after material begins to dry creating a "straight lace" effect.



1) Always start spraying brick edges first. Make sure to cover up inside edges for the overspray.



2) Spec-Deck is generally sprayed on using an air compressor and drywall hopper gun. Suggested air pressure is between 8 to 27 PSI. Since the air pressure and spray nozzle on hopper gun are variable, many alternate designs and techniques can be achieved.



3) After spray coat has dried and able to walk on. Color highlights can be sprayed on. Always highlight from lightest to darkest. Usually a minimum of two colours are used for highlighting.



4) After Spec-Deck has taken its final set and you are able to walk on without leaving any marks remove tape to reveal the pattern created. Allow a minimum of 24 hours before applying a sealer.



## SEALING:

**Overview:** After surface is dry, allow a minimum of 24 hours, before application of the first coat of Spec-Deck Sealer, at a rate of 200-400 square feet per gallon. Allow a minimum of 4 hours after first coat before the application of the second coat at a rate of 100-200 square feet per gallon. Let cure for 24 hours before opening to light foot traffic, 72 hours for heavy traffic.



1) Apply the first coat of Spec-Deck Concrete Sealer at rate of 200-400 square feet per gallon using a roller. If Spec-Deck will be used indoors or in a high traffic area use a 100% non-yellowing epoxy sealer, at a rate of 100-125 ft<sup>2</sup>/gal. Allow a minimum of 4 hours before the application of the second coat of Spec-Deck Concrete Sealer. Apply with a roller at a rate of 100-200 square feet per gallon. If used indoors use a second coat of 100% solids non-yellowing epoxy sealer again at 100-125 square feet per gallon.

2) If desired a third coat of sealer is recommended in high traffic areas. If used indoors use a high solids urethane sealer as the top coat. This will create a mar resistant surface. Allow a minimum of 24 hours before opening to light traffic and 72 hours for vehicle traffic. Spec-Deck will continue to cure and reach its ultimate strength after 28 days.



BEFORE



AFTER





# SPEC-DECK ROLLER GRADE

**DESCRIPTION:**

Spec-Deck Roller Grade is a two part polymer modified, flexible, breathable cementitious coating for exterior or interior use. Spec-Deck Roller Grade contains a migrating corrosion inhibitor that protects reinforcing steel from corrosion induced by carbonation, chloride and atmospheric attack. Spec-Deck Roller Grade is a very thin coating that will give the concrete a uniform color but will not fill holes or voids in the surface.

**USES:**

It is extremely successful for resurfacing a variety of substrates such as walkways, pool decks, patios, concrete driveways and other applications. Spec-Deck Roller Grade is also a decorative and durable surfacing for new concrete surfaces, enhances the abrasion resistance to light traffic and increases the resistance of the substrate to deicing salts and water intrusion.

**SURFACE PREPARATION:**

The surface to be coated must be structurally sound and clean. As a rule, always repair cracks, spalls and any unsound substrates before applying materials. The surface must be thoroughly cleaned of oil, grease, dirt, paint, and any loose material or other foreign matter. Remove laitance and cement particles by acid etching, (3 parts water to 1 part muriatic acid is typically sufficient). Flush thoroughly to remove any acid. Flood surface with water and mark any low spots. Power wash surface with 3000 psi water to thoroughly clean the surface of any remaining contaminants.

**MIXING:**

Mix complete kit. Place approximately ½ of liquid resin in a clean container. Using a ½ inch drill with a jiffy mixer at slow speed; slowly add all the powder to produce a smooth paste with no lumps. Add remaining liquid and continue to mix until uniformly blended. Do not aerate the mix. After thoroughly mixing, allow material to fatten for 5-10 minutes in mixing pail. Remix before application. If adding colour, carefully measure each colour to ensure uniform amount of colour is incorporated into each batch of Spec-Deck Roller Grade. Note: even small variations in colour volume may cause noticeable colour variations in the finished product.

**APPLICATION:**

Surface and ambient temperature must be at least 7°C (45°F) and rising. For porous surfaces or when applying in direct sunlight, predampen the surface, but ensure it is free of any standing water prior to application. Using a thicker consistency of material, use a trowel to fill in any low spots. Allow to cure until you can walk on the patch. Spec-Deck Roller Grade can be applied by spraying, rolling or brushing. Apply the first coat at 100-125 ft<sup>2</sup>/gal; second coat at 150-200 ft<sup>2</sup>/gal. Using a brush, load the bristles with Spec-Deck Roller Grade and lay the coat using long, smooth horizontal strokes. Final stroke should be in one direction to produce a uniform appearance. The second coat can be applied 2-4 hours after the first coat has cured at 23°C (75°F) or longer at lower temperatures. Two coat coverage per complete kit is 175 - 225 square feet. Clean all tools and equipment with water immediately following use. Clean drips with water while still wet. Cured Spec-Deck Roller Grade will require mechanical abrasion for removal.

REV 10/05/00