

# 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: Spec-Deck Powder (dry bag mix) and Spec-Deck Resin (liquid polymer). The specially formulated powder is mixed with a polymer and then trowelled or sprayed on the surface, the cured surface is then sealed using an acrylic concrete 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 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 is usually sprayed using an air compressor and a texture 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, various designs and patterns can be achieved.

As the material begins to dry, the surface can be trowelled lightly using a “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.

TRUSeal High Gloss Sealer is applied, after the surface dries. Multiple colouring effects, using chemical stains, can be used allowing for a unique 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.



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



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Manufactured by:  **Con-Spec Industries Ltd.**  
9525 - 63 Avenue, Edmonton, Alberta T6E 0G2  
[www.conspecindustries.com](http://www.conspecindustries.com)



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## DESCRIPTION:

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

## USES:

Spec-Deck 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, loose material or other foreign matter. "Vee" out cracks, then fill with an epoxy and chopped fibre. Apply a skim coat of Spec-Deck powder over the tacky epoxy to allow for 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 to the surface at 200 square feet per gallon as a prime coat. On porous surfaces apply a second coat. Allow primer to dry clear. If primer dries hard apply a second coat.

## MIXING:

Add six (6) litres 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 by weight 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 Con-Spec TRUSeal Acrylic 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.

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## TYPICAL PHYSICAL STRENGTH

	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 (450)	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