

street ice® Installation Guideline

FOR NEW OR EXISTING CONCRETE SURFACES

Scope

This Installation Guideline is intended as a general reference to describe product usage and construction techniques which will tend to provide an evenly textured color surface for new or existing Portland cement concrete. This Guideline pertains to the application of *Street Ice* over recreational areas intended for In-Line Skating activities.

1.0 SURFACE PREPARATION

1.1 Base Construction

Surface must meet or exceed the American Sports Builders Association (ASBA) applicable Guidelines. Concrete surfaces must have a vapor barrier in place directly below the slab and have good perimeter drainage for best long term results. A broom finish shall follow. Upgrading and recoating previously colored surfaces requires the surface and base construction to be in sound condition and in compliance with the applicable ASBA Guidelines. For application over an existing *Street Ice* surface, pressure wash thoroughly, rough-up the existing surface by sanding or light grinding, and remove dust residues from the surface by blowing and or washing clean to insure proper adhesion.

1.2 Substrate Cure Requirements

The concrete surface must not vary more than 1/8" in 10' in any direction when measured with a straight edge. New concrete must have a light to medium broom finish and must cure a minimum of 28 days in good weather prior to applying the *Street Ice* System. Absolutely no concrete curing compounds may be used. New concrete must be acid-etched with either phosphoric or muriatic acid. If the surface is smooth two applications may be required and the acid must be thoroughly rinsed to remove latence and salt. NOTE: New concrete surfaces must have a vapor barrier in place directly below the slab and have good perimeter drainage.

1.3 Crack Filling

The surface must be smooth, free of dirt, loose or flaking paint, oily materials or chemical residues, vegetation of any sort and any other debris or foreign matter that may prevent the proper product adhesion. Thoroughly rout existing cracks of dirt, debris and loose impediments. Cracks should be blown clean with an air compressor. After cleaning, apply Deco Crack Filler 64061 to fill cracks. See Specification 64061 for details.

1.4 Surface Imperfections

Before the application of Deco products, the court surface shall be flooded with water and allowed to drain. Any depressions capable of submerging a U.S. five-cent piece after one hour should be marked with chalk, not crayon or a grease pencil. These areas must be allowed to thoroughly dry. Once dried, apply Acrylic Patch Binder 920-39 to the marked area. See Specification 920-39 for details.

1.5 Priming

New concrete surfaces must include a Prime Coat to establish a strong bond. Concrete surfaces should be primed with California Products Ti-Coat Concrete Primer. Please consult your Deco Area Manager for recommended product use.

2.0 APPLICATION OF California Ti-Coat Concrete Primer

The coverage rate is 300-400 square feet per gallon per coat depending on the porosity of the surface.

2.1 Mixing Instructions

Add equal parts by volume of component "A" to component "B" and mix well. Let mix stand for 20-30 minutes prior to application. DO NOT DILUTE. Use all mixed material within 4 hours.

2.2 Installation

Use a short nap phenolic core roller. Apply a thin, wet coat. Do not allow fat spots.

2.3 Drying and Curing Times

California Ti-Coat will dry within 3 hours of application. California Products Acrylic Resurfacer applied within one to three hours of the application of Ti-Coat while still tacky to the fingertip touch will provide maximum adhesion. Ti-Coat will dry faster on a hot day and slower on a cool day, but in all cases Acrylic Resurfacer must be applied the same day.

3.0 APPLICATION OF ACRYLIC RESURFACER 920-29.

Deco recommends two (2) coats of Acrylic Resurfacer 920-29 prior to the application of any Deco Surfacing System. The undiluted coverage rate of Acrylic Resurfacer is approximately 0.06 gallons per square yard, per application.

3.1 Mixing Instructions

The following mix has been found to be satisfactory for average surface conditions:

Acrylic Resurfacer 920-29	55 gallons	30 gallons
Silica Sand (60 - 80 Mesh)	600 - 900 lbs.	325-400 lbs.
Clean potable water	20-40 gallons	11-22 gallons

Do not use sand containing clay, silt, ferrous metals or salt.

Thorough mixing is required. A mechanical mixer is recommended and mixture should be stirred until homogeneous. Periodic mixing should take place as job progresses to ensure consistent application. In very warm conditions more water may be added.

3.2 Installation

Using a 70 durometer flexible rubber squeegee, apply Acrylic Resurfacer mix parallel to one of the sides of the surface area. Care should be taken not to leave ridges where adjoining applications overlap. Under hot conditions, application is improved by keeping surface damp with a fine mist water spray. Never allow water to pool on the surface.

3.3 Drying and Cure Time

Acrylic Resurfacer must be allowed to cure a minimum of 2 hours before applying additional acrylic coatings, assuming 70°F temperatures and 50% relative humidity. Low temperatures and high humidity will increase drying time dramatically.

4.0 APPLICATION OF *street ice S/I-3*

Two (2) applications have proven to give excellent performance results. The undiluted coverage rate of *Street Ice* is approximately 0.04 gallons of *Street Ice* per square yard, per application.

4.1 Mixing Instructions

Street Ice comes ready to apply. In some cases, such as high temperatures, water may improve the workability of *Street Ice*. A maximum ratio of five (5) parts *Street Ice* and one (1) part water is allowed. Stirring is required.

4.2 Installation

Using a 50 or 70 durometer flexible rubber squeegee apply *Street Ice* parallel to one of the sides of the area to be coated. Care should be taken not to leave ridges where adjoining applications overlap. Application when the surface temperature is above 90° F is improved by keeping surface damp with a fine mist water spray. No pooling should be allowed. Additional applications should be installed at 90° to the previous application.

4.3 Drying and Cure Time

Street Ice must be allowed to dry for a minimum of four hours between coating applications, assuming 70°F temperatures and 50% relative humidity. Low temperatures and high humidity will increase drying time dramatically. After the final application of *Street Ice*, the surface shall cure a minimum of three (3) days at temperatures above 60°F and 50% relative humidity.

5.0 APPLICATION OF LINE PAINT 920-22.

One (1) application has proven to give excellent coverage.

5.1 Mixing Instructions

Line Paint comes ready to apply. Only gentle stirring is necessary. DO NOT DILUTE.

5.2 Striping Layout

Consult the American Sports Builders Association specifications for proper striping layouts.

5.3 Application

Apply Line Paint 920-22 to the clean, dry, color coated surface by brush, roller, airless spray or special marking

equipment. Apply tape to both sides of the area to be striped. Apply a primer coat of the final acrylic color coating over the inside edges of the tape. This will seal the tape to the acrylic surface and prevent the White Striping Paint from bleeding under the tape. One coat is usually enough.

5.4 Drying and Cure Time

Line Paint must be allowed to dry for 4 hours between coating applications, assuming 70°F temperatures and 50% relative humidity. Low temperatures and high humidity will increase drying time dramatically. Completed projects should be allowed 24 hours before releasing to play.

6.0 LIMITATIONS

6.1 Surface Limitations

Deco Surfacing products are limited to application on hot-mix asphalt and Portland cement concrete recreational surfaces. Deco Surfacing Systems does not recommend, nor authorize application on any other surfaces without prior approval from your Deco Area Manager.

6.2 Weather Limitations

No part of the construction involving the Deco Surfacing System should be conducted during rainfall, or when rainfall is imminent. The air temperature must be at least 60°F and rising. Do not apply when surface temperature is above 140°F.

6.3 Will Not Prevent Cracks

No part of the installation will prevent cracks from occurring or prevent existing cracks from reappearing.

6.4 Do Not Over Dilute

Over dilution can cause streaking, foaming, adhesion failure, and poor overall durability of the coating.

6.5 Indoor Application Curing

Drying times are retarded by high humidity, cool temperatures or lack of air movement. This is particularly important to note when installing indoors, where all three factors are often very pronounced. Consult your Deco Technical or Sales Representative for dry time requirements.

6.6 Keep From Freezing

Water-based, acrylic products must be kept from freezing during storage or in transit. If you receive product you suspect may have been exposed to freezing temperatures, consult your Deco Area Manager for proper handling instructions.

7.0 LIMITED WARRANTY

The Company warrants that the products to be delivered and sold there under are the kind and quality described in its specifications and no other warranty, except of title, is expressed or implied. All other warranties and/or liabilities, including consequential damages, are specifically excluded whether the directions for a product's use are followed or not. Notification of any apparent defect or defects shall be

made promptly in writing to the Company. Should any product (unless sold as is) prove, upon our inspection, to be defective in workmanship or materials in accordance with the specifications, the Company will replace the product or refund the purchase price. No person has the authority of the Company to make or accept any other warranty, liability, or conditions on the Company's behalf. If the above stated conditions of this warranty are unacceptable, the purchaser may return, at his expense, all unopened packages, bags or containers for credit within 30 days from the date of purchase.

8.0 FOR FURTHER INFORMATION

California Products Corporation manufactures many different recreational surfaces products. For additional information on other Deco Surfacing Systems products, contact us at:

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