

CR - CONCRETE RESURFACER

Description

ProSpec[®] CR is a polymer modified cement based product used for resurfacing old concrete to make it look new again.

Features

- Excellent bond to old concrete, down to feather edge
- Hardens quickly
- Less expensive alternative to concrete replacement
- Self curing, no additional curing compounds needed
- Polymer modified
- Interior/exterior
- High flexural and compressive strength
- No primer needed
- Fast drying, walkable in 8 hours
- Durable, freeze thaw resistant
- Apply using a steel trowel, squeegee, masonry brush for curbs or steps and broom finished

Uses

- Commercial and residential applications
- Walkways
- Concrete stairs
- Garage floors
- Pool decks
- Patios
- Driveways

Technical Data

Working Time @ 70° F (21° C)

20 to 30 minutes

Set Time ASTM C 191 @ 70° F (21° C)

Initial set 60 to 90 min.

Final set 90 to 120 min.

Compressive Strength ASTM C 109 (Air Cured)

3 hours 1,500 psi (10.3 MPa)

1 day 2,400 psi (16.5 MPa)

7 days 3,600 psi (24.7 MPa)

28 days 5,000 psi (34.5 MPa)

Flexural Strength ASTM C 348

28 days 1000 psi (6.9 MPa)

Length Change ASTM C 157

Dry

1 day 0.004%

7 days 0.000%

28 days -0.014%

Wet

1 day 0.007%

7 days 0.010%

28 days 0.031%

Test results obtained under controlled laboratory conditions.
Reasonable variations can occur due to atmospheric and job site conditions.

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Preparation

Surface must be solid, completely clean, free of oil, wax, grease, sealers, curing compounds, asphalt, paint, dirt, loose surface material and any contaminant that will act as a bond breaker. Weak concrete surfaces must be cleaned down to solid sound concrete by mechanical means such as scarifying or high pressure washing. Acid etching or chemical cleaning is not acceptable. The area should be saturated surface dry (SSD) with no standing water, prior to application.

Crack Repair:

Expansion joints should be reflected through the ProSpec CR. Larger cracks must be repaired with a cement based patching compound such as ProSpec Floor Patch or Premium Patch 200 prior to applying ProSpec CR. Repaired areas must be set firmly prior to applying ProSpec CR. Any non-moving cracks should be "V" saw cut to a solid core and be filled with an acrylic caulk. Crack repairs should be allowed to cure and set completely (approximately 60 minutes at 70° F (21° C)) prior to covering. When ProSpec CR is used as a veneer over cracked concrete, it is possible that existing cracks, particularly those that move even when repaired, may mirror through the thin layer of ProSpec CR.

Mixing

For each 50 lb. (22.7 kg) bag of ProSpec CR add 4 qts. (3.7 L) to 5 1/2 qts. (5.2 L) of clean, potable water into a mixing drum. Then add the CR bags, while mixing at full speed with a paddle mixer at-

tached to a heavy-duty 1/2" drill. Mix completely for a minimum of 2-3 minutes until lump free, adding no additional water. Do not retemper.

Application

ProSpec CR should only be applied to a properly prepared substrate. Remove any material that interferes with bond including dust and dirt by brooming and vacuuming. Expansion joints likewise should be marked to prevent being filled with ProSpec CR.

Pour the mixed CR onto the substrate. Then spread with a squeegee, or flat trowel using enough pressure to assure good contact with the entire surface then broom finish. Work in areas small enough for easy access for broom finishing without having to walk on

the fresh CR. A broom finish needs to be applied within 10-15 minutes of application while the product is still fresh. Pour subsequent applications while the previous application is still wet. On vertical installations such as stairs, trowel ProSpec CR directly onto the properly prepared distressed area and finish as desired, less water may be required.

ProSpec CR can be applied at a thickness of up to 1/2" and accept foot traffic after 2 hours, and rubber wheel traffic after 8 hours at 70° F (21° C).

Clean Up

Clean tools and equipment immediately after use with water.

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Best Performance

- Not intended to match the color of the concrete being repaired
- Not acceptable for use in heavy industrial applications such as steel wheeled traffic, loading docks or heavy manufacturing and heavy truck areas
- Do not install below 40° F (4° C)
- Do not over water or mix with additives
- Do not use in permanently submerged areas, such as within swimming pools
- Always install a test area, insuring suitability of CR for intended use

Curing and Sealing

Curing application ambient and substrate temperature should be a minimum of 40° F (4° C). ProSpec CR is self-curing however do not allow the product to freeze or be exposed to rain if such should occur within 24 hours of placement. CR is a

cement based product therefore temperature, wind and substrate conditions will affect performance. To avoid dusting and staining, ProSpec CR should be sealed using a water based, breathable concrete sealer.

Coverage

50 lb. (22.7 kg) bag covers approximately 100 ft² (9 m²) at 1/16" (2 mm) or 50 ft² (5 m²) at 1/8" (3 mm)

Color

ProSpec CR dries to a light gray color, however cements will vary in color, thus affecting the color of concrete. Additionally age and job site conditions

will play a role therefore CR may not match the surrounding distressed concrete. A test application is recommended to determine color suitability.

Packaging

50 lb. (22.7 kg) moisture resistant bag

Storage

Store under cool/dry conditions and keep from direct sun exposure.

Shelf Life

One year when stored properly in original unopened container.

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Caution

KEEP OUT OF REACH OF CHILDREN AND ANIMALS. WARNING!

Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In

case of contact, flush thoroughly with water. The wearing of gloves and safety goggles is recommended.

In case of eye contact, flood eyes with potable water and call physician. DO NOT RUB EYES.

Do not take internally. Crystalline silica sand may cause serious lung problems. Avoid breathing dust and wear a respirator in dusty areas.

Consult Material Safety Data Sheet for further information

First Aid

Inhalation: Remove to fresh air.

Eye Contact: Irrigate eye with water or consult physician if irritation persists.

Skin Contact: Washed exposed skin area with soap and water; consult a physician if irritation persists.

Ingestion: Immediately consult a physician.

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