Perdüre CR

technical data sheet

düraamen
engineered to perform

DESCRIPTION

Perdüre CR is a single component, polymer modified concrete repair compound designed for filling and repairing concrete and masonry surfaces above, on or below grade. It is suited for patching and/or resurfacing distressed horizontal surfaces. It is intended for fast turnaround repairs and contains a special migratory corrosion inhibitor. When mixed with water, it results in a consistent mix that can be troweled, shaped and shaved after the initial set.

Perdüre CR is a general purpose concrete repair material used to fill spalls, gouges, dormant cracks and other low areas in existing concrete surfaces, including sidewalks, patios, plazas, courtyards, walkways, driveways, parking garages and pool decks. It can also be used to re-form concrete steps, pre-cast products, concrete pipe, curbs, sidewalks, bridges, panels and walls. It also can be used to fill honeycombs, form tie rise holes, spalls or irregularities due to misaligned forms or unconsolidated concrete. Once applied and allowed to dry properly, Päram, Sgraffino or Überdek can be installed over the entire area to create a desired appearance.

ADVANTAGES

- Single component – just mix water on site
- Specialty polymers promote excellent bond to the existing concrete substrate
- Can be applied vertically and on overhead applications
- Tenacious bond to concrete substrates
- Excellent freeze/thaw stability
- Quick turnaround, ready for foot traffic in two hours
- Suitable for residential and commercial applications

APPLICATION

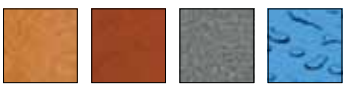
- Surface must be solid, completely clean, free of oil, wax, grease, sealers, curing compounds, asphalt, paint, dirt, loose surface material and any contaminants that will act as a bond breaker.
- Weak concrete surfaces must be cleaned down to solid sound concrete by mechanical means such as scarifying or high pressure washing and exhibit a profile of CSP2 or greater.
- Completely expose and clean all reinforcing steel, ensuring a minimum clearance of 3/4” behind reinforcing steel. Perform reinforcing steel preparation in accordance with ICRI Technical Guidelines No. 03730.
- The repair area must be saw cut in a basic rectangular shape to at least 1/2” in depth. The cuts should be made at approximately a 90° angle and should be slightly keyed. Chip out the concrete inside the cuts to a minimum depth of 1/2” until the area is squared or boxed in shape.
- Use mechanical methods such as scarifying or similar to create an exposed aggregate surface with a minimum surface profile of approximately 1/16”.
- The area should be saturated surface dry (SSD) with no standing water prior to application.
- Concrete substrate and ambient temperatures must be between 40°F and 80°F.
- Please refer ICRI Technical Guide No. 03732 “Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings and Polymer Overlays” for expanded guidelines.

MIXING

- For each 50lb bag of Perdüre CR, add 4.0quarts to a maximum 5.0 quarts of clean potable water into a mixing drum. Then add the desired amount of powder slowly from the bag into the mixing drum while mixing at full speed with a paddle mixer attached to a medium duty 1/2” drill. Mix completely for a minimum of 1-2 minutes until it is lump free.
- Do not mix more material that can be applied within 10 minutes.
- To fill areas 2” deep or larger, add 15lbs of clean saturated surface dry 3/8” pea gravel to 50lbs. of Perdüre CR. First mix Perdüre CR as outlined, then add the pea gravel and mix for 60 seconds. Mixing time should not exceed 2-3 minutes.
- DO not mix more water or re-temper. This will reduce the strength as well as color of the cured product.

INSTALLATION

- Immediately apply the fresh mortar into the surface, forcing Perdüre CR firmly into the previously prepared area ensuring full contact with all bonding surfaces. A wet spray may be used for final shaping.
- In deeper areas additional lifts can be made after the original patch has reached initial set. Score and roughen the original lift layer to improve bond between the layers.
- Perdüre CR can placed in lifts up to 1” on vertical and overhead applications by holding the mortar in place until initial set has occurred.
- Please note that thicker areas will take longer to set and will reduce the overall coverage.



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CURING

- Cure in accordance with American Concrete Institute procedure 308.
- Protect the patch from high temperature, high wind, low humidity and direct sun causing rapid drying, by covering with wet burlap or plastic for up to 24 hours.

CLEAN UP

Wash hands and tools with water promptly before material hardens. Cured material must be mechanically removed.

COVERAGE

A 50lb bag of Perdüre CR yields 0.43ft^3 and 0.61ft^3 when mixed with pea gravel as described above.

AVAILABILITY

Perdüre CR is available throughout the United States and Canada. Contact Düraamen representative in your area for details.

TECHNICAL SERVICE

Düraamen Engineered Products, Inc. provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces.

TECHNICAL DATA

Initial set	20 min @ 72°F
Final set	30 min @ 72°F
Mixing water	4.0 – 5.0quarts of water for 50lb bag
Compressive strength (ASTM C 928)	
1 hour	1925psi
3 hours	3340psi
1 day	4885psi
7 days	5845psi
28 days	6500psi
Shear Bond Strength (ASTM C882)	
1 day	1142psi
7 days	1180psi
Flexural Strength (ASTM C348)	4885psi
1 day	
28 days	
Shelf life	12 months
Freeze/Thaw Resistance (ASTM C 666 Method B)	
After 300 cycles	1% loss due to slight scaling; no spalling

WARRANTY

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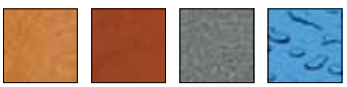

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