

### DESCRIPTION

**Param 5500** is the ultimate self-leveling and self curing product that is designed for interior use in leveling uneven rough substrates. Its calcium aluminate cement based formulation creates an excellent bond with various types of substrates. It can be used over ceramic tile, terrazzo and wood to provide a smooth even finish in restoration projects.

### ADVANTAGES

- No trowelling required; it is self-leveling
- Superior bond to various types of substrates
- Rapid early strength - accepts foot traffic in 3-4 hours and moisture sensitive flooring covering in 24 hours
- Contains no protein additives; no gypsum
- Applications from feather edge to 1.5in without any additives and up to 5in with aggregates
- Maintains workability (healing properties) for 25 minutes (depending upon ambient conditions)
- Does not promote the growth of mold or mildew
- Very fluid, ideal for pouring and pumping

### APPLICATION

#### SUBSTRATE REQUIREMENTS

- Clean the areas and remove all unsound concrete, grease, oil, paint, asphalt, tar and any other foreign materials that will inhibit performance
- Substrates must be stable, solid and structurally sound
- Substrate must be mechanically profiled by shot-blasting, sand blasting or scarifying to achieve a CSP 4 to CSP 5
- After cleaning and profiling, test for MVER (moisture vapor emission rate)
- For applications over cutback adhesive residue, wood surfaces, non-porous substrates such as terrazzo, ceramic and quarry tile, burnished concrete, epoxy coatings, painted surfaces and metal, please contact Duraamen's technical staff.
- Movable expansion or control joints must be reflected through *Param 5500*

#### PRIMING

- *Param Primer* must be applied over entire substrate that is at least at 50°F
- For porous substrates 2 coats of *Param primer* may be necessary. The dilution rate 1:1 with clean potable water. **Coverage:** 350-400ft<sup>2</sup>/ga
- The primer must be applied evenly with a fine hair push broom. DO NOT use paint rollers, mops, or spray equipment except over wood and metal (contact Duraamen technical staff for correct priming applications).
- Apply a thin primer layer leaving no bare spots, puddles or excess primer. Allow to dry to a clear, thin film.
- Important: *Param 5500* must be applied within 48 hours of priming to insure that a good bond is achieved between primer and the substrate. It is very important that the primed substrate is not contaminated in any way prior to the installation of *Param 5500*.

### MIXING & INSTALLATION

- Before the application of *Param 5500*, close all doors, windows and protect it from direct sunlight.
- Adequate amount of interior air movement and ventilation is required to obtain an even pattern of the curing process. Lack of proper interior ventilation can affect drying and appearance.
- The "mixing station" should be set up outside of the area to be poured so as no dust can affect the pouring area or create a bond breaking option. The dust caused due to mixing may cause delamination.

#### Manual Installation

- Mix 2 bags of *Param 5500* at a time. For each bag, first add 5.5 to 5.75 quarts of clean potable water into a mixing drum.
- Add the bags of *Param 5500* slowly while mixing at full speed with a paddle mixer attached to a heavy duty 1/2in drill (min. 650rpm)
- Mix completely for a minimum of 2-3 minutes until the mix is lump free or until the mix is homogenous adding no additional water. It is important to keep the water addition at the lowest possible level that produces a free flowing mix.
- At higher temperatures it is recommended that the mixing water is iced to chilled.
- Pour the blended *Param 5500* on the floor and disperse with a leveling gauge rake set to the proper depth required. Follow this as quickly as possible by smoothing with the proper smoothing tool. Make sure that you keep the pouring ribbons fresh so as to maintain the leveling properties. Each ribbon poured on the floor should be meshed into the previously poured ribbon making sure that it is still fresh and workable.
- The crew who are actually pouring and finishing the blended material on the floor should wear cleats (preferably non-metal) to avoid slippage on the wet material and reduce any foot marks into the freshly poured material.

#### Pumping Installation

- Most pumps have a capacity for a certain amount of bags per hour. When pumping, determine that amount of bags, multiple it by 5 quarts and set your water flow meter at the prescribed amount of gallons per hour. Using only one section of hose, start the pump and when the material is discharging in a well mixed state adjust your water accordingly to the top of the material is not over watered. If you see a heavy water discharge to the top of the material or a discoloration and/or white streaking you are over watering the material. This technique and visual aid supply to both pumping and manual installation. Should these things be noticed, immediately reduce the water.

#### COVERAGE

*Param 5500* yields 25ft<sup>2</sup> per gallon per bag at 1/4inch thickness.

## AVAILABILITY

*Param 5500* is available throughout the United States and Canada. Contact *Duraamen* representative in your area for details.

## TECHNICAL SERVICE

Duraamen Building & Allied 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

Density	120lb/ft <sup>3</sup>
Mixing Ratio	5.0-5.5 quarts per 50lb bag
Solids Content	38-40% by volume
Flammability (ASTM E84)	
Flame Spread	0
Fuel Contribution	0
Smoke Development	0
Compressive Strength (ASTM C 109)	
4 hours	1000psi
24hours	3000psi
7 days	4500psi
28 days	5500psi
Flexural Strength	1100psi
Set Times (ASTM C191)	
Working Time	25 min (depending on temp.)
Initial Set	1.5hours
Final Set	2 hours

## WARRANTY

Duraamen Building & Allied products, Inc. warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of *Duraamen*. If any product fails to meet this warranty, the liability of *Duraamen* will be limited to replacement of any non-conforming material if notice of such non-conformity is given to *Duraamen* within (1) one year of delivery of materials. *Duraamen* may in its discretion refund the price received by *Duraamen* in lieu of replacing the material. No customer, distributor or representative is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of *Duraamen*. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. *Duraamen* reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. DURAAMEN'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND DURAAMEN SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY OTHER THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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