

# Param 5500

## Premium grade self-leveling concrete topping

### DESCRIPTION

Param 5500 is a self-leveling and self curing concrete topping that is designed for 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

### 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. Acid etching or chemical cleaning is not acceptable
- After cleaning and profiling, test for MVER (moisture vapor emission rate)
- Do Not install Param 5500 over coal, tar or asphalt waterproofing systems
- Movable expansion or control joints must be reflected through Param 5500.
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- Moisture vapor transmission must be less than 3lb/1000ft<sup>2</sup>/24hr (as per ASTM F1869) and less than 80% RH as per ASTM F2170. For higher moisture levels, consult your Duraamen representative.

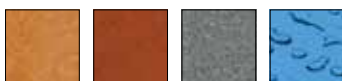
### INSTALLATION STEPS

#### PRIMING

- Paramol must be applied over entire substrate that is at least at 50°F
- For porous substrates 2 coats of 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 nylon 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
- If the moisture vapor emission from the concrete substrate exceeds 3lb/1000ft<sup>2</sup>/24hr (as per ASTM F1869), we recommend installing Perdure MVT as a primer

### MIXING & INSTALLATION

- Mix 2 bags of Param 5500 at a time. For each bag, first add 5.0 to 5.5 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 ½in 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 chill.
- 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 5.0 to 5.5 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. 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.

## CURING

- Param 5500 is self curing. Therefore do not use damp curing methods or curing and sealing compounds. Protect it from excessive heat conditions during its initial curing stage. Turn off all forced ventilation and radiant heat systems for the first 24 hours or after the application of sealers/coatings.

## CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with Xylene or Lacquer thinner. Consult MSDS for safety and health precautions.

## COVERAGE

Param 5500 yields 25 sq. ft. per bag at ¼inch thickness.

## AVAILABILITY

Param 5500 is available throughout the United States and Canada. Contact Duraamen representative in your area for details. The shelf life of Param 5500 is six months from the date of manufacture.

## MAINTENANCE

After completing the installation, the applicator should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly. Properly sealed Param 5500 is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Treating the surface with a floor finish (Smartgard) is optional. Long periods of heavy traffic may cause wear patterns necessitating application of a finish coat.

## TECHNICAL SERVICE

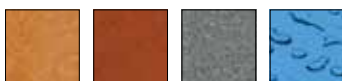
Duraamen Engineered Products Inc. provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces.

## TECHNICAL DATA

|                                   |                                |
|-----------------------------------|--------------------------------|
| Density                           | 125lb/ft <sup>3</sup>          |
| Mixing Ratio                      | 5.0 to 5.5 quarts per 50lb bag |
| Flammability (ASTM E84)           |                                |
| Flame Spread                      | 0                              |
| Fuel Contribution                 | 0                              |
| Smoke Development                 | 0                              |
| Compressive Strength (ASTM C 109) |                                |
| 24hours                           | 3000psi                        |
| 7 days                            | 5000psi                        |
| 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                        |
| Shelf life                        | 6 months                       |

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