

Param micro50

Cementitious self-leveling micro underlayment

DESCRIPTION

Param micro50 is a self-leveling micro underlayment formulated using very latest cement-polymer technology that allows to be very fluid (anywhere between 30%-40%) as compared to any conventional premium self-leveling concrete toppings. It is designed for interior applications where a super smooth surface is desired. Concrete overlays or micro-toppings or other hard surface flooring coverings such as ceramic tiles, porcelain tiles or natural stone can be applied within 6-8 hours after application. Flexible floor coverings such as carpet, VCT, rubber and engineered wood plank can be installed in as little as 16-18 hours.

ADVANTAGES

- Very economical - self-leveling even at 1/16"
- Maintains healing and properties up to 20-30 minutes
- Creates a super flat surface
- Easy to apply, even for non-professionals
- Accepts floor coverings in as little as 16-18 hours
- Will not contribute to the growth of mold or mildew
- Environmentally friendly – contributes to LEED points

SURFACE PREPARATION

Param micro50 should only be installed over substrates with a direct tensile bond test reading of 72 psi or greater as per ASTM C-1583-04. It should not be installed over Gypsum underlayment. Moisture vapor transmission must be less than 3lb/1000ft²/24hr (as per ASTM F1869) and less than 80% RH as per ASTM F2170 over concrete substrates. For higher moisture levels, we recommend using Perdure MVT or Perdure MVT+ to mitigate MVER in the concrete substrate.

Concrete & Non-porous Substrates: Surface must be dry, sound, clean, free of oil, wax, sealers, asphalt, paint, dirt, gypsum or latex patches, urethanes, adhesives, loose material and any contaminate that may act as a bond breaker. Weak surfaces must be cleaned by mechanical means such as chipping, shot-blasting, or grinding. Never use acid-etching, chemical cleansers or mastic removers on any surface to which Düraamen product will be applied. Non-porous surfaces must be abraded to a dull finish. The substrate temperature must be at least 50°F.

- **Over Cutback and Adhesive Residue:** In some case the cutback may contain asbestos fibers whose inhalation is harmful. We highly recommend hiring professionals in the removal of flooring materials that contains asbestos. Mechanically remove adhesive to a translucent, clean, well bonded film using the wet scraper. Param micro50 can be installed over non-asbestos adhesives if the residue is thin

(translucent), solid well-bonded to the substrate and not affected by water. Avoid applications where heat or excessive moisture will soften or degrade the adhesive causing delamination.

- **Wood Substrates:** Param micro50 shall only be applied over underlayment grade sub-floor such as 3/4" tongue and groove exterior APA rated Type 1 plywood, OSB or other approved engineered underlayment. All surfaces must be clean, free of varnish, patching compounds, shellac, paint or any contaminant that interferes with bond. Sanding the surface to the bare clean wood is always recommended. Any moving or flexible boards must be secured with deck screws and open seams filled with a polymer modified patching compound. The wood or plywood substrates must be free of deflection (should not exceed L/360), considering both live and dead loads. Use an approved anti-fracture membrane over Param micro50 in areas where ceramic tile or stone are being installed.

Priming:

Concrete: All Substrates must be clean and dry before primer is applied. Dilute the primer 1:1 with clean water. The primer must be applied evenly using a nylon push broom with exploded tips and it should be worked into the substrate. Apply a thin coat leaving no bare spots, puddles or excess primer. Broom out any puddles that form as primer begins to dry. Allow to dry to a clear film approximately 1-2 hours.

On very porous concrete do an initial primer application diluted 3:1 water to primer. Apply in the same manner and allow to dry 1 hour minimum prior to applying 1:1 coat. Maximum open time for primer is 24 hours.

Non-porous substrates like wood and adhesive residue – Apply one coat of undiluted primer using a 3/8" nap roller. Apply a thin film, leave no puddles or bare spots. Allow the primer to dry minimum 2 hours but no more than 24 hours.

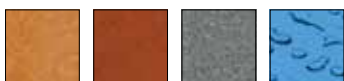
MIXING

Mix two-bag batches of Param micro50. For each bag add a maximum 6.5 quarts of clean cold water into a mixing drum. Then, add bags of Param micro50 while mixing at full speed with a paddle attached to a heavy duty 1/2" drill (minimum 650 rpm). Mix for at least 2 minutes or until lump free, adding no additional water. Keep mixing the paddle immersed in material to avoid entraining excess air.

Wood Substrates: The addition of primer is required to increase the resiliency of Para micro50. Add 2 quarts of the Primer and 4.5 quarts for each bag of Param micro50.

INSTALLATION

Pour the blended Param micro50 on the floor immediately and



disperse with a gauge rake followed by finishing with a smoother. Plastic athletic type cleats should be worn when using smoother to avoid leaving marks. Param micro50 will maintain its workability and leveling properties for up to 20-30 minutes.

Pumping: Deep placements and large projects are more efficiently installed with the use of a pump. Contact your Duraamen representative for recommended pumping procedures and approved equipment.

Installation Notes:

- Prevent excessive air movement during installation and for first 24 hours after that.
- Protect the material from direct sunlight. These variables can cause a false set, uneven curing patterns and cracking.
- Param micro50 is self-curing; no wet curing or other curing methods shall be used.
- If water based adhesives are drying or skinning over too quickly when applied to the Param micro50, simply apply a coat of the primer as described for very porous concrete. Allow the primer to dry minimum 2 hours and proceed with adhesive application.
- Cooler temperatures, higher humidity and inadequate ventilation can extend drying times.
- Substrate variations may telegraph on very thin applications. Always apply enough material to achieve desired result.

COVERAGE

Param micro50 yields 125 ft² per bag @ 1/16", 60 ft² per bag @ 1/8", 35 ft² per bag @ 1/4".

AVAILABILITY

Param micro50 is available throughout United State of America and Canada. Contact your Duraamen representative in your area for details. The shelf life of Param micro50 is 6 months from the date of the 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 4500 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 (Smärtgard) is optional. Long periods of heavy traffic may cause wear patterns necessitating application of a finish coat.

TECHNICAL SERVICE

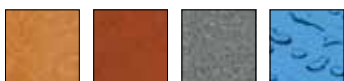
Duraamen Engineered Products Inc. provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces.

TECHNICAL DATA

Installed weight (per sq. ft.)	2.05lbs @ 1/4" thick
Mixing Ratio	6.5 quarts of water per bag
Flammability (ASTM E84)	
Flame Spread	0
Fuel Contribution	0
Smoke Development	0
Compressive Strength (ASTM C109)	
4 hours	1000 psi
1 day	2500 psi
28 days	5000 psi
Set Times (ASTM C-191)	
Flow times	20 minutes
Final Set	60 minutes
Accepts Floor Covering: (at 70°F, 50% RH), adequate ventilation	
Ceramic Tile & Stone	4 hours
Carpet, VCT	12 hours
Vinyl, Rubber, Wood	16 hours
Concrete overlay / micro-topping	24 hours
Epoxy over 20mil thickness	3-5 days
Shelf life	6 months

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