



## PARABOND® Micro Finish Patch and Skim Coat

### DESCRIPTION:

MICRO FINISH is a highly polymer-modified, cementitious-based patch, which offers precise drying characteristics. MICRO FINISH is designed as an “all purpose” patching compound for the fast paced installer who requires product consolidation without giving up quality or performance. It may be used as a true skim coat or fill up to any thickness that may be needed to fill cracks, gouges, smooth ridges, or simple ramping to meet other transitions. It can be used over concrete, wood underlayments, properly prepared ceramic tile and adhesive residues (including encapsulation of cutback), or as an embossing leveler when mixed with M-615.

### USES AND QUALIFICATIONS:

1. Provides a skimming and patching compound for interior applications.
2. MICRO FINISH is suitable for use over concrete, properly prepared ceramic tile, or approved, structurally sound wood sub-floors on all grade levels: on, below or above grade. It is also recommended for use over properly prepared residual adhesive prior to the installation of floor covering materials. MICRO FINISH is the perfect choice when used prior to the installation of ceramic, stone, marble, slate, hardwood, laminates, etc.
3. Micro Finish can be used to repair interior sub-floors from a true featheredge to a ½ inch or up to any thickness to fill cracks, gouges, or simple ramping to meet other transitions (not to exceed 6 lineal feet).
4. For preparation of any concrete surface - rough, unlevelled, unfinished or burnished - prior to installation of finished flooring.
5. Compatible with all floor covering, hardwood, ceramic tile, epoxy and polyurethane adhesives, including dry-set mortars.
6. For use as an embossing leveler over non-cushioned polyurethane or PVC vinyl wear layers when mixed 100% with Parabond M-615 Latex Additive in lieu of water.  
**NOTE:** Before performing an embossing leveling application, sheet vinyl should be stripped with the sheet vinyl manufacturer's recommended stripper to enhance bonding.
7. The addition of M-615 Latex is not required for encapsulation of cutback adhesive residue.

### PREPARATION:

1. All surfaces of any kind must be clean, solid, free of dust, oil, grease, curing compounds, paint, dirt or any substance that might break the bond.
2. All concrete sub-floors must be of adequate strength, breathable and completely cured.
3. Do not acid etch.
4. No primer is required.
5. All non-porous substrates must be clean and free of any dressings or sealers. Mechanical sanding and/or scarifying of any non-porous or smooth surfaces is strongly recommended.
6. When applying over existing ceramic tile remove any coatings or sealers from the surface of the tile and grout. Abrade the tile surface using a belt sander at low speed and remove the remaining dust.
7. All adhesive residues, including cutback adhesive from existing floor covering must be scraped off to ensure a maximum thickness of no more than a thin, well-bonded residue (substrate must be breathable). After scraping remove all loose matter. Trowel ridges should not be felt.
8. All wooden sub-floors must be free of dust or any foreign particles and structurally sound, with no movement. If necessary, sand the surface to bare wood and vacuum thoroughly.
9. Before applying over non-cushioned vinyl tile and sheet goods the floor should be stripped with the vinyl manufacture's recommended stripper to remove any waxes, oils, or coatings that could prevent proper bonding. Vinyl flooring must be limited to one layer and be firmly attached to the substrate.

**MIXING:**

1. For patch or skim application use 2-1/2 quarts of water per 10 lb bag. For smaller uses, mix 2 parts powder to 1 part water. For embossing leveling over non-cushioned sheet goods substitute M-615 Latex Additive, full strength, in lieu of water.
2. The water should be clean with a temperature maximum of 70°F.
3. Place the liquid in the container first, then add the powder, while slowly mixing - by hand or mechanically - to a smooth, lump free consistency. Over-mixing or high speed mixing is to be avoided.
4. Workability varies with temperature; NEVER add additional water to recondition.

**APPLICATION:**

1. MICRO FINISH trowels almost effortlessly using a steel, flat edge trowel.
2. Light downward pressure is all that is necessary to fill voids and defects. MICRO FINISH slides easily from the trowel, with less sticking as compared to other comparable products.
3. Use enough pressure to fill all voids and defects in the substrate.
4. Due to its unique butter-like consistency MICRO FINISH can be feathered into any sub-floor surface to be the desired degree of smoothness.
5. Micro Finish can be used to repair interior sub-floors from a true featheredge to a ½ inch or up to any thickness to fill cracks, gouges, or simple ramping to meet other transitions (not to exceed 6 lineal feet).
6. The patched area can be covered with the respective floor covering once MICRO FINISH has completely dried.
7. Cutback encapsulation requires a minimum film thickness of 1/16".
8. Protect from drafty conditions and excessive heat during the drying stage.
9. Wash hands and tools with water immediately after application.

**TECHNICAL DATA:**

Pot life @ 73°F/22.5°C Up to 15 min

Drying Time @ 73°F/22.5°C 15-60 min depending on thickness and jobsite conditions

Initial set @ 73°F/22.5°C 15-30 min

Final set @ 73°F/22.5°C 40-60 min

Typical installation of floor covering 15-60 min after placement, or once the patch is completely dry depending on thickness, nature of sub-floor, and temperature

Compressive strength:

ASTM/C109 4 hrs: 1200 psi

28 days: 4000 psi

Coverage; skim coat

10 lb Bag: Concrete: 100-150 sq ft

Plywood: 200-250 sq ft

Coverage 1/8"

10 lb Bag: 30-35 sq ft

Color Gray

**SHELF LIFE:**

6 months when stored in original unopened packaging in a dry area at 60-80°F.

**LIMITATIONS:**

1. For interior use only.
2. Follow proper underlayment quality guidelines recommended by the floor covering manufacture.
3. Do not use where excessive moisture, alkali, or hydrostatic pressure problems exists.
4. Do not use to level large areas. Use Parabond Thick Pour PFU self-leveling underlayment.
5. Do not use over expansion and control joints.
6. Do not use as a concrete resurfacing material that will be left exposed.
7. Do not apply directly over gypsum-based materials.
8. Do not use over lightweight materials with low compressive and surface strengths.
9. Do not use over metal, presswood, or flakeboard substrates.
10. Do not use as an embossing leveler over cushioned vinyl or perimeter glued sheet goods.
11. Do not use to encapsulate cutback adhesive over heated floors.

**HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS:**

Chemical Name	CAS Number	% by Weight	ACGIH TLV	OSHA PEL
Quartz Silica	14808-60-7	<1.0	0.05mg/M <sup>3</sup>	.01mg/M <sup>3</sup>
Portland Cement	65997-15-1	3-10	10mg/M <sup>3</sup>	15mg/M <sup>3</sup>
Calcium Aluminate	65997-16-2	25-50	3mg/M <sup>3</sup>	5mg/M <sup>3</sup>
Calcium Carbonate	1317-65-3	20-40	10mg/M <sup>3</sup>	15mg/M <sup>3</sup>
Calcium Sulfate	26499-65-0	5-15	10mg/M <sup>3</sup>	15mg/M <sup>3</sup>
Polymer	Proprietary	2-10	10mg/M <sup>3</sup>	10mg/M <sup>3</sup>

**SAFETY, HAZARDOUS, & FIRST AID:**

This product contains Portland Cement. Skin or eye contact with moist or wet product can cause drying, irritation, and painful caustic burns. Avoid skin contact by wearing rubber gloves with suitable clothing. Protect eyes by wearing safety glasses or tight fitting goggles.

**HAZARD AND FIRST AID MEASURES:**

**SKIN:** Wash with soap and water. May cause irritation and redness to moist skin. Prolonged exposure where product becomes moist can lead to caustic burns. Contact a physician if irritation occurs.

**EYES** –Flush with water for 15 minutes. Seek immediate medical attention. May cause irritation, stinging, pain, redness through abrasion. Can cause mild to severe irritation leading to caustic burns once moist and not removed.

**INHALATION** – If exposed to excessive levels of dust, remove to fresh air. Contact a physician if irritation occurs. May cause irritation to throat, nose and respiratory system. Prolonged or repeated overexposure may cause silicosis.

**INGESTION** - Do not ingest as this material may harden on contact with water and result in obstruction. May cause gastric distress. Contact a physician for treatment.

**CHRONIC:** Crystalline silica causes all forms of silicosis, a degenerative lung condition/ disease characterized by progressive shortness of breath, coughing, sputum production and in acute stage is fatal.

**CARCINOGENICITY:** This product contains crystalline silica which is classified as a carcinogen by the NTP and IARC, but is not classified as a carcinogen by OSHA.

This product contains crystalline silica, inhalation of which can cause injury to lungs, silicosis (lung disease), and cancer, with long term repeated overexposure.

**WARNING:** Crystalline silica is known to the state of California to cause cancer. Avoid creating dust and wear an approved NIOSH dust mask or respirator to prevent dust inhalation. **First Aid:** Remove to fresh air. Contact a physician if breathing difficulties occur.

*Disclaimer: All data is given based on repeated results in controlled lab conditions. Field results may differ slightly depending on site conditions, type of substrate, temperature, actual thickness, method of mixing and application.*

**WARRANTY:**

**IMPORTANT NOTICE:** This product is not suitable for all uses. Para-Chem tests this and all its products for a wide variety of uses and for application with a wide variety of surfaces and materials. Para-Chem cannot test all possible surfaces and materials. When used as recommended according to industry standards and on a surface/material tested by Para-Chem, Para-Chem's limited warranty is as follows:

If an installation failure occurs within one year from the date of installation as a direct result of an out-of-specification Para-Chem product, Para-Chem will pay for the material and labor as determined by Para-Chem. Para-Chem specifically excludes and is not liable for any other damage or loss, including consequential or incidental damage or loss.

For a list of materials that have been tested, please contact Para-Chem at (800) 763-7272. If you have material that has not been tested, Para-Chem will test the material for you.

EXCEPT FOR THE FOREGOING LIMITED WARRANTY, PARA-CHEM ASSUMES NO RESPONSIBILITY THAT THIS PRODUCT WILL BE FIT FOR ANY PARTICULAR PURPOSE FOR WHICH YOU MAY BE BUYING THIS PRODUCT. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. PARA-CHEM EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. EXCEPT FOR THE LIMITED WARRANTY SET FORTH ABOVE, THIS PRODUCT IS BEING SOLD AS-IS.

**WARNING:**

Do not sand, dry sweep, dry scrape, drill, saw, bead blast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphaltic "cutback" adhesive, or other adhesive. These products may contain asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard.

**NOTICE:**

Various federal, state and local government agencies have regulations governing the removal of in-place asbestos-containing material. If you contemplate the removal of a resilient floor covering structure that contains (or is presumed to contain) asbestos, you must review and comply with all applicable regulations.

For additional information please call: Resilient Floor Covering Institute, 401 E. Jefferson St., Suite 102, Rockville, MD 20850 (301) 340-8580.

SEE MSDS FOR MORE INFORMATION.

KEEP OUT OF REACH OF CHILDREN

3/3/09

# MATERIAL SAFETY DATA SHEET

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Para-Chem<sup>®</sup>, PO Box 127, Simpsonville, SC 29681  
24-Hour Emergency Telephone: (864) 967-7691

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## SECTION 1. PRODUCT IDENTIFICATION

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PRODUCT NAME: PARA-PATCH MICROFINISH  
CHEMICAL FAMILY: High Strength Cementitious Patching Compound

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## SECTION 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Quartz Silica	14808-60-7	< 1.0	0.05 mg/M <sup>3</sup>	0.01 mg/M <sup>3</sup>
Portland Cement	65997-15-1	3-10	10 mg/M <sup>3</sup>	15 mg/M <sup>3</sup>
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Polymer	Proprietary	2-10	10 mg/M <sup>3</sup>	10 mg/M <sup>3</sup>
Other	----	2-10	10 mg/M <sup>3</sup>	15 mg/M <sup>3</sup>

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## SECTION 3. HAZARDS IDENTIFICATION

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PRIMARY ROUTES OF ENTRY: Eyes, skin, and inhalation

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Respiratory problems such as bronchitis, emphysema, chronic obstructive pulmonary disease.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: May cause irritation, stinging, pain, redness through abrasion. Can cause mild to severe irritation leading to caustic burns once moist and not removed.

SKIN CONTACT: May cause irritation and redness to moist skin. Prolonged exposure where product becomes moist can lead to caustic burns.

INGESTION: May cause gastric distress. Hardens when wet.

INHALATION: May cause irritation to throat, nose and respiratory system. Prolonged or repeated overexposure may cause silicosis.

CHRONIC: Crystalline silica causes all forms of silicosis, a degenerative lung condition/disease characterized by progressive shortness of breath, coughing, sputum production and in acute stage is fatal. See Section 11.

CARCINOGENICITY: This product contains crystalline silica which is classified as a carcinogen by the NTP and IARC, but is not classified as a carcinogen by OSHA. See Section 11.

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## SECTION 4. FIRST AID MEASURES

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EYE CONTACT: Flush with water for 15 minutes. Contact a physician if irritation occurs.

SKIN CONTACT: Wash with soap and water. Contact a physician if irritation occurs.

INGESTION: Product may harden on contact with water and result in obstruction. Contact a physician for treatment.

INHALATION: If exposed to excessive levels of dust, remove to fresh air. Contact a physician if irritation occurs.

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## SECTION 5. FIRE-FIGHTING MEASURES

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FLASH POINT (°F): None.

LOWER FLAMMABLE LIMIT: None.

UPPER FLAMMABLE LIMIT: None.

FIRE-FIGHTING INSTRUCTIONS: Not applicable.    EXTINGUISHING MEDIA: Not applicable.

DECOMPOSITION PRODUCTS: None. Product will harden if wet.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Sweep, shovel, or vacuum spilled material into a waste container for disposal. Avoid creating excessive dust. Solidifies when wet.

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## SECTION 7. HANDLING AND STORAGE

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HANDLING: Use good hygienic practices. (Wash hands before eating, using washroom, or smoking.)

\*\*\* Keep out of the reach of children. \*\*\*    Remove contaminated clothing immediately.

STORAGE: Store in dry area. Keep tightly closed or sealed when not being used. Contact with moisture or water will cause product to harden.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Minimum - safety glasses w/side shields. Preferred – Air tight sealing goggles.

SKIN PROTECTION: Leather gloves for handling dry material. Waterproof rubber gloves under moist or wet handling conditions. Clothing as needed to protect body from exposure. Remove and wash clothing after exposure or if it becomes wet during work period.

RESPIRATORY PROTECTION: Use NIOSH, MSHA, or OSHA approved dust masks suitable to prevent inhalation of respirable dust under conditions where dusting exceeds the PEL. Use approved NIOSH full face respirator under high dust exposure conditions.

ENGINEERING CONTROLS: Standard mechanical ventilation to keep dust below PEL. Site specific exhaust where exposure to high concentrations of dust occurs during processing or in enclosed work areas.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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BOILING POINT (°F): Not applicable.

SPECIFIC GRAVITY (WATER = 1): 1.7

VAPOR PRESSURE: Not applicable.

VAPOR DENSITY (air=1): Not applicable.

% VOLATILE BY WEIGHT: 0

pH: Wet material: 10 - 12

APPEARANCE AND ODOR: Light gray powder with no odor.

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## SECTION 10. STABILITY AND REACTIVITY

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CHEMICAL STABILITY: Stable.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Mixing with water, acids, ammonium or metal salts.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

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## SECTION 11. TOXICOLOGICAL INFORMATION

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Acute/Chronic exposure: Repeated and/or long term exposure to dust can cause inflammation (swelling) of the lining tissues of the nose and the cornea (eye). Some individuals may develop skin allergy. Acute exposure to high dust levels can result in severe coughing, difficulty in breathing, and reduced pulmonary function. Acute exposure in animal testing has resulted in damage to lungs, and pulmonary edema.

Crystalline Silica:

Silicosis - Chronic inhalation exposure across long periods can lead to chronic (simple) silicosis, characterized by lung lesions primarily in the upper lung zones. Often, no symptoms exist from simple silicosis. Simple silicosis can progress to more complicated silicosis or progressive massive fibrosis (scarring), where lung lesions increase in size. Again, no direct symptoms may be apparent, but if present include shortness of breath, wheezing, cough, and sputum production with resultant decreased lung function that can be disabling and if allowed to progress may lead to death or secondary heart disease. Accelerated silicosis results in the same exposure effects across a much shorter period where an individual is exposed to chronic high concentrations of respirable crystalline silica. Acute silicosis is an advanced state produced by very high levels of exposure and can occur over a period of only several months leading to death.

Carcinogenicity - IARC and NTP characterize crystalline silica inhaled in the form of quartz or cristobalite as carcinogenic in humans and test animals. IARC also noted that carcinogenicity was not detected in all industrial circumstances studied. OSHA does not regulate crystalline silica as a carcinogen.

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## SECTION 12. ECOLOGICAL INFORMATION

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Product is composed predominantly of naturally occurring minerals and/or processed from natural occurring minerals and is expected to have minimal effect on the environment.

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## SECTION 13. DISPOSAL CONSIDERATIONS

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Dispose of in accordance with Federal, State and Local regulations. Dispose of in a fashion that prevents the generation of airborne dusts.

