



Powerhold 650

Polymer fortified Portland Cement Patch Plus

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DESCRIPTION:

Powerhold 650 is a true multi-purpose cementitious patching compound and skim coat. This polymer modified product can be used as a true skim coat or patch by simply adjusting the liquid to powder mix ratio. It is designed as an "All Purpose" material for the installer who requires product consolidation without giving up quality and performance.

USES AND QUALIFICATIONS:

1. Provides a patching compound for interior uses with extended pot life.
2. Use over an approved non-porous substrate requires the application of Parabond NP-630 Non Porous Primer.
3. Powerhold 650 can be used over dry concrete and wood underlayments such as exterior grade plywood prior to the installation of floor coverings. It can be used on, below, or above grade concrete surfaces horizontally or vertically.
4. When mixed with Powerhold 800L, Powerhold 650 can be used as an embossing leveler or patch over properly prepared non-cushioned vinyl sheet goods, cement terrazzo, unglazed ceramic tile, vinyl composition tile (VCT and VAT), and residual cutback adhesive surfaces up to ¼" thickness.
5. For repairing interior subfloors from a perfect featheredge to 1/2". Application of two layers recommended for greater thickness up to 1".
6. For preparation of any concrete surface - rough, unlevelled, unfinished or burnished prior to installation of floor coverings.
7. Compatible with most floor covering, ceramic tile, epoxy and polyurethane adhesives including dry-set mortars used to complete the installation.

DIRECTIONS/PREPARATION:

1. All surfaces of any kind must be clean, solid, and free of dust, oil, grease, curing compounds, paint, dirt or any loose substance that might break the bond.
2. All concrete subfloors must be of adequate strength and completely cured.
3. Acid etching is not acceptable.
4. No primer is required.
5. 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.
6. For increasing the bond strength to any non-porous substrate the use of Parabond M-615 Latex instead of water is recommended.
7. All non-porous substrates must be clean, free of any dressings and sealers. Mechanical sanding and/or scarifying of all very smooth surfaces is highly recommended.

8. All wooden subfloors 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. All adhesive residues, including cutback adhesive from existing floor covering must be scraped off to ensure a maximum thickness of not more than a thin, well-bonded residue. After scraping remove all loose matter.
10. Before applying over non-cushioned vinyl tile and sheet goods the floor should be stripped using the vinyl manufacturer'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 application:** 4 quarts water to 25 lb bag OR 5 ½ quarts water to 35 lb. pail
For skim coat application: 4 ½ quarts water to 25 lb bag OR 6 ¼ quarts water to 35 lb. pail. Mix volume three (3) parts powder to one (1) part water.
2. The water should be clean at a maximum temperature of 70°F.
3. Powder should be maintained at room temperature.
4. Place the water in a container first, and then add the powder, while slowly mixing using a low speed mixer. Mix to a smooth, lump-free consistency. Over-mixing or high speed mixing should be avoided.
5. Workability varies with temperature. If some thickening occurs the pot life can be extended and workability regained by re-mixing. (One Time) Never add water to recondition.
6. When used over cutback residue, existing vinyl, ceramic tile, non-cushioned sheet goods, cement, terrazzo, and highly porous surfaces the powder should be added to Parabond M-615 instead of water, at the same product/liquid ratio.

APPLICATION:

1. Powerhold 650 is easily applied using a steel flat-edge trowel.
2. Use enough pressure to fill all voids and defects.
3. Due to its unique butter-like consistency Powerhold 650 can be feathered into any subfloor surface to the desired degree of smoothness.



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- When mixed with water Powerhold 650 can be installed from a featheredge up to 1/2" thickness. When mixed with Parabond M-615 it can be applied from featheredge up to 1/4" thickness.
- The patched area can be covered with the respective floor covering once the Powerhold 650 is completely dry.
- After it starts stiffening in the container Powerhold 650 can regain workability if remixed. Do not add additional water when remixing.
- Cutback encapsulation requires a minimum film thickness of 1/16". Note that old cutback adhesive must be scraped (in compliance with all local, state and federal guidelines) to a thin well bonded residue and that Powerhold 800L must be used in place of water.
- Protect the patched area from drafty conditions and excessive heat during the drying stage.
- Wash hands and tools with water immediately after application.

LIMITATIONS:

- This product is intended for interior use only.
- Follow proper underlayment quality guidelines recommended by the floor covering manufacturer.
- Do not use to level large areas.
- Do not use on floors where excessive moisture, alkali or hydrostatic pressure is present. Prior to the installation of adhesive applied flooring products, we highly recommend conducting a calcium chloride moisture test on concrete slab on or below grade. If test results show the moisture exceeds 5 lbs. per 24 hours per 1000 sq ft as tested using the Calcium Chloride test ASTM F1869 or 80% when tested in accordance to ASTM F2170, consult the floor-covering manufacturer for their specific recommendation.
- Do not use over expansion and control joints.
- Do not use as a concrete resurfacing material that will be left exposed.
- Do not apply directly over gypsum-based materials.
- Do not use over lightweight concrete or other lightweight materials with low compressive and surface strengths.
- Do not use over metal, pressboard, or flakeboard substrates.

- To prevent premature, dehydration, mix with Powerhold 800L when applying a skimcoat over highly porous or dry substrates such as plywood.
- Do not use as an embossing leveler over cushioned vinyl or perimeter bonded sheet goods.
- Do not use to encapsulate cutback adhesive over heated floors.
- It is the sole responsibility of the installer to determine the suitability and compatibility of the adhesive for the user's intended use.

TECHNICAL DATA

Pot Life: @ 73°F/22.5°C 10-15 minutes
Drying Time: @ 73°F/22.5°C 40-60 minutes, depending on thickness and ambient conditions.
Initial Set: @ 73°F /22.5°C 15-30 minutes
Final Set: @ 73°F /22.5°C 45-60 minutes
Color: Gray
Compressive Strength ASTM / C109
4 Hours 1200 PSI
28 Days 4500 PSI

Featheredge up to 1/2 inch when mixed with water.
Featheredge up to 1/4 inch when mixed with Powerhold 800L.
Installation of floor coverings – 60 minutes, or once the patch is completely dry.

COVERAGE:

Skim-coat 300-450 sq ft / 25 lb bag
375-475 sq ft / 35 lb pail

1/8" thick 25-35 sq ft / 25 lb bag
30-40 sq ft / 35 lb pail

WARRANTY:

Powerhold offers a limited warranty for this product when used in accordance with printed specifications. A copy of the limited warranty can be obtained by contacting your local Powerhold Distributor, calling 844 638-4583 (GLUE) or www.powerhold.net