

APACTM

50

Fast-Setting, Polymer-Modified, Cement-Based Patch

DESCRIPTION

APAC 50 is a quick-setting, latex-fortified, sanded cement-based patching compound where, when mixed only with water, floor covering can be installed in just 1 hour after application. Mix with *APAC 51* latex liquid additive to use as an embossing leveler or to skimcoat properly prepared cutback adhesive residue.

FEATURES & BENEFITS

- Patches concrete from featheredge to 1/2"
- Mix with *APAC 51* to bond to ceramic tile, VCT and residual cutback adhesive residue
- Easy to apply

USES

- Use for patching and filling cracks, holes, voids and depressions in concrete and plywood before the installation of carpet, vinyl flooring, glue-down wood flooring, ceramic tile, slate, marble, granite and stone veneer floors. Use *APAC 50* mixed with *APAC 51* additive as an embossing leveler over noncushioned sheet vinyl with a vinyl or urethane wear layer. Use *APAC 50* mixed with *APAC 51* additive for bonding to vinyl composition tile (VCT), ceramic tile, cement terrazzo and residual cutback adhesive residue.
- Mix *APAC 50* with *APAC 51* for increased working time. If needed, when mixed with water, *APAC 50* can be applied in two layers up to 1". It offers a compatible bond with most resilient or ceramic tile adhesives, dry-set mortars, epoxies and polyurethane adhesives when these materials are subsequently used for the installation of floor-covering materials.

AREAS OF USE

- Residential (apartments, condominiums and houses)
- Commercial (office buildings, hotel rooms and hallways, restaurant dining areas, and retail stores)
- Institutional (schools, libraries, government buildings, hospitals and universities)
- Heavy commercial (airports, convention centers and lobby areas)

RECOMMENDED SUBSTRATES

- When mixed with water or diluted *APAC 51*: fully cured concrete, and any wood underlayment that is recommended or guaranteed by either the wood underlayment manufacturer or the floor-covering manufacturer, such as APA exterior-grade plywood, Group 1, CC type.
- When mixed with full-strength *APAC 51*: existing, properly prepared and fully bonded noncushioned sheet vinyl, VCT, ceramic tile, cement terrazzo and residual cutback adhesive residue.

Consult APAC Technical Services for installation recommendations regarding substrates and conditions not listed.

LIMITATIONS

- Do not install over any substrates containing asbestos. Do not apply directly over gypsum-based substrates, gypsum-based floor-patching compounds or lightweight concrete. For interior use only. Air temperature must be between 50°F and 100°F. Do not apply over self-stick tile, old adhesives, metal, linoleum, laminate, particleboard or stripwood subfloors. Do not use as a wear surface. *APAC 50* must be covered with a final floor-covering material.
- For leveling large areas that require more than a skimcoat application, use an APAC self-leveling product. Refer to Technical Information Sheets at www.apacadhesives.com for information on this type of product.

SURFACE PREPARATION

All substrates must be structurally sound, dry, solid and stable. Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.

Concrete must be fully cured and free of any hydrostatic and/or moisture problems. Use the in-situ probe method in accordance with ASTM F2170 to determine relative humidity and/or anhydrous calcium chloride tests to determine MVER according to ASTM F1869 as needed for the final floor finish.

Concrete slabs with excess moisture based on the final floor finish should be treated with a product that reduces moisture vapor. Refer to Technical Information Sheets at www.apacadhesives.com for information on this type of product.

MIXING

Note: Choose all appropriate safety equipment before use. Refer to Material Safety Data Sheet (MSDS) for more information.

1. Dry-mix the entire contents of the *APAC 50* bag before mixing small batches with water for use over concrete or wood underlayment.
2. Use a ratio of 1 part liquid to 2-1/2 parts *APAC 50* or 1 part liquid to 3 parts *APAC 50*, depending on desired consistency.
3. Into a clean mixing container, pour liquid (water or diluted *APAC 51*). Gradually add powder while slowly mixing. Do not add additional liquid. Note: To increase the working time of *APAC 50*, *APAC 51* can be mixed diluted or full-strength. For dilution ratios, see Technical Information Sheet for *APAC 51*.
4. Using a low-speed mixer (at about 300 rpm), mix thoroughly for 2 to 3 minutes until it is smooth and lump-free. Avoid trapping air into the product or prolonged mixing because it will shorten the pot life. Avoid preparing more material than can be used within 8 to 10 minutes.

Note: Two coats are required over noncushioned sheet vinyl, VCT, ceramic tile, cement terrazzo and residual cutback adhesive residue: First coat should be *APAC 50* mixed with full-strength *APAC 51*, and second coat should be *APAC 50* mixed with diluted *APAC 51*.

INSTALLATION

Read all installation instructions thoroughly before installation.

1. Because *APAC 50* is a fast-setting material, immediately spread paste onto the floor surface after mixing.
2. Using a large flat-edge steel trowel, fill, level, smooth and blend to create a flat even surface. Allow patch to dry completely (about 60 to 90 minutes). Note: For 2-coat applications, ensure that entire area is completely covered with first coat (minimum thickness = 1/16", maximum thickness = 1/8").
3. Apply second coat using a flat-edge steel trowel. Fill, level, smooth and blend to create a flat even surface. Allow patch to dry completely. Note: For 2-coat applications, ensure that entire area is completely covered with second coat (minimum thickness = 1/32").
4. Wait until dry before sanding or applying any additional flooring materials (about 60 to 90 minutes).
5. Wash hands and tools immediately after mixing with water, while material is still fresh.
6. Protect existing expansion and control joints. Do not fill or cover expansion and control joints with patching compound. Protect from excessive heat or draft conditions during curing. Protect from traffic, dirt or dust until final installation of floor covering. Wait for *APAC 50* mixture to completely dry before applying adhesive or installing a floor covering (material must be covered by a floor covering).

APPROXIMATE COVERAGES*

Per 25-lb. bag

At 1/32" thick = 100 to 140 sq. ft.

At 1/8" thick = 25 to 35 sq. ft.

Per 45-lb. bag

At 1/32" thick = 180 to 250 sq. ft.

At 1/8" thick = 45 to 63 sq. ft.

** Coverages shown are for estimating purposes only. Actual coverage is affected by substrate condition and application method.*

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

TECHNICAL DATA

Pot life	8 to 10 minutes
Drying time required before floor-covering installation	60 to 90 minutes, or once the product is completely dry
Compressive strength, 28 days (ASTM C109)	> 3,500 psi
Shrinkage factor, 28 days	None
Storage conditions	50°F to 90°F
Shelf life	1 year

PACKAGING

Product Code	Size
10925221	Bag: 25 lbs. (11,3 kg)
10945221	Bag in pail: 45 lbs. (20,4 kg)