

APAC™

20

Multi-Use Primer



DESCRIPTION

APAC 20 is a concentrated acrylic primer used before installing self-leveling underlayments or topping materials on porous floor substrates. APAC 20 dries to a green color for easy identification. APAC 20 can also be used as a general-purpose primer on dry concrete and gypsum underlayments when mixed in a 3-to-1 ratio of water to primer.

FEATURES & BENEFITS

- Water-based formula
- Easy to apply with stiff broom or brush
- Significantly enhances bond strength of APAC self-leveling underlayments to porous substrates

USES

- For indoor use only on absorbent concrete surfaces
- Apply when substrate temperature is between 50°F and 95°F.
- Can be used over plywood with appropriate preparations
- Can be used over gypsum underlayment as a film-forming product as an alternative to an overspray

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

Fully cured concrete (at least 28 days old), cement backer units (CBUs), Group 1 exterior-grade plywood, gypsum-based underlayments and leveling coats

LIMITATIONS

- Do not install over substrates containing asbestos.
- Do not use over presswood, particleboard, chipboard, Masonite, Lauan, metal or similar dimensionally unstable material.
- Do not use outdoors or over wet surfaces.
- Do not use on indoor surfaces subject to standing water.
- APAC 20 primer must be used before the installation APAC 40 and APAC 44 self-leveling underlayments
- APAC 20 can only be used when concrete substrate and ambient room temperatures are between 50°F and 95°F. Maximum open time to recoat or to apply underlayment is 18 hours. Do not apply underlayment before at least 3 hours of curing.

SURFACE PREPARATION

All substrates must be properly prepared, structurally sound, stable, solid and free of any substance (concrete sealers, curing agents, existing adhesive, dirt, wax, tar, paint, loose toppings, etc.) that might impair bond to substrate. If such substances are present, mechanically remove them.

Concrete: Concrete substrates must have tensile strength of at least 175 psi, should be prepared to a CSP #3 profile and should demonstrate suitable porosity for primer penetration. Concrete or existing ceramic tile surfaces must be mechanically profiled and prepared by shotblasting, sandblasting, water-jetting, scarifying, diamond-grinding or other engineer-approved methods (reference ICRI CSP #3 or greater standards for acceptable profile height). Porous concrete may be subject to “outgassing,” the release of trapped air from concrete. Outgassing is visually undetectable and could cause surface defects with the installation. Outgassing may be aggravated by mechanical preparation of the substrate. To address this, wait 24 to 48 hours after proper mechanical preparation of the substrate before applying the first coat of primer. Vacuum all dust from the surface before applying the primer. For use with underlayments and other finished floor systems – such as resilient, vinyl composition tile (VCT) and ceramic – consult the floor-covering or coating manufacturer’s recommendations regarding the maximum allowable MVER and retained moisture content in substrate.

Plywood: APAC 20 can be used over plywood subfloors (exterior-grade plywood typically 2 layers of 11/16" to 3/4" thick) meeting a minimum deflection criteria of L/360 before installing leveler for ceramic tile versus L/720 for natural stone (both with live and dead loads considered). All such installations must be primed, and then reinforced with well-secured diamond mesh to ensure mechanical bond (first apply primer, attach diamond mesh meeting ASTM C847-04 and then pour self-leveling underlayment). Note: In applications over wood, the user can expect hairline cracking on wood joints. Any other approved surfaces to receive must have a surface profile of at least ICRI CSP #3 or greater.

Consult Technical Services for installation recommendations regarding substrates and conditions not listed. Refer to APAC’s Surface Preparation Guidelines at www.apacadhesives.com.

MIXING

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

1. Dilute 1 U.S. gal. of APAC 20 with 3 U.S. gals. of clean potable water.
2. Stir using a low-speed mixer (at 300 to 500 rpm) and a “jiffy” mixing paddle. Do not overmix at high speeds, which could cause the product to foam.

3. Make sure concrete substrate and ambient room temperatures are between 50°F and 95°F before application. Temperatures must be maintained within this range for at least 72 hours after the installation of primer and finished material. In cooler conditions, use indirect auxiliary heaters to maintain ambient and substrate temperatures within the required range. For temperatures above 85°F, follow ACI hot-weather application guidelines to ensure a successful installation.

INSTALLATION

Read all installation instructions thoroughly before installation.

1. Apply primer, working it into the substrate with a push broom or brush (do not apply with roller). Porous concrete may require additional coats (at the same dilution rate) to avoid surface defects in the finished leveler application. Do not apply APAC 20 at lower dilution rates (1-to-1, or 1-to-2). Instead, apply multiple coats at the same 1-to-3 ratio. Ensure there are no standing puddles of APAC 20 before installing self-leveler.
2. Let APAC 20 dry to a green, transparent film (with no milky spots) and until tacky to the touch (after about 3 hours at 73°F). Lower substrate temperatures and/or humid conditions could extend the APAC 20 drying time. The maximum open time between coats or before applying a self-leveler or topping is 18 hours.
3. Install an APAC self-leveling underlayment or topping per its Technical Information Sheet.

CLEANUP

Clean up with water while fresh.

TECHNICAL DATA

Polymer type	Styrene acrylic polymer
VOCs	34 g/L
Dilution rate	1 U.S. gal. APAC 20 with 3 U.S. gals. potable water
Minimum dry time before applying second coat of APAC 20	30 minutes
Minimum dry time before applying leveler	3 hours
Maximum dry time between coats of APAC 20 or before installing self-leveler	18 hours
Storage conditions	50°F to 90°F
Shelf life	2 years
Flash point	> 212°F

Note: Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

PACKAGING

Product Code	Size
36053221	1 U.S. gal. (3,79 L)

TYPICAL TROWELS AND APPROXIMATE COVERAGES*

1 U.S. gal. of APAC 20 diluted with 3 U.S. gals. of water = 600 to 800 sq. ft.

* Coverages shown are for estimating purposes only. Actual jobsite coverage may vary according by application method, substrate, substrate conditions and actual thickness applied.

INDUSTRY STANDARDS AND APPROVALS

LEED Points Contribution	LEED Points
MR Credit 5, Regional Materials*	Up to 2 points
IEQ Credit 4.2, Low-Emitting Materials – Paints & Coatings	1 point

*Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

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.**