

ACRYLFLEX FINE



ACRYLFLEX FINE is a cement based, high density, patching, topping, resurfacing and underlayment material which may be applied from a feather-edge up to 1/4".

ACRYLFLEX FINE provides superior adhesion, flexural & compressive strengths when applied over concrete, brick, etc.

** Needs to be mixed with Addmix-21*

- May be applied over spalled and pitted concrete
- An excellent underlayment for tile, carpet, etc.
- A resurfacer for floors, shipping docks, ramps, garages, patios, steps, sidewalks, etc.
- Highly resistant to abrasion
- Bonds to new or old concrete
- Superior compressive and flexural strengths
- Withstands the damaging effects of repeated freeze thaw cycles
- Excellent wearing surface for interior or exterior applications

Resurfacing Mortar	Apply by trowel from feather-edge up to 1/4"
Packaging	40 lb bag (50/pallet)
Coverage per 40 lb bag	1/8" = 40 ft ² 1/4" = 20 ft ²
Application Temperature	Ambient & surface temperature must be 40°F or above and will not fall below that for 48 hours
Mixing per 40 lb bag	1G Addmix-21 (no water)
Working Time	30-60 minutes at 70°F
Set Time	12-24 hours at 70°F
Color	Gray



Phone: 800-442-5535
 Fax: 978-453-2416
www.umaco.com

ACRYLFLEX FINE is a permanent, high density, patching, topping and underlayment material which may be applied from a feather-edge up to 1/4". Acrylflex Fine is packaged as a two part unit consisting of a specially blended Portland cement based powder (Acrylflex Fine) and a gallon of Add Mix-21, an acrylic bonding agent. Umaco Acrylflex Fine provides an excellent wearing surface which may be used on interior or exterior applications.

USES and ADVANTAGES

- A superior topping, patching and underlayment material which may be used for interior or exterior applications
- A resurfer for concrete floors, shipping docks, ramps, garages, driveways, patios, steps, sidewalks and many other working surfaces
- Highly resistant to abrasion making it an ideal product to use in high traffic and work areas
- Restores non-skid surfaces found in kitchens, dairies & food processing plants
- May be used to set ceramic tile, quarry tile, masonry and natural stone pavers
- Use Acrylflex Fine when the application requires a maximum build up of 1/4" down to a feather edge
- Acrylflex Regular may be used for thicker applications
- Superior adhesion & flexural strengths
- Bonds to new or old concrete, cement, brick, stone, plywood & other properly prepared surfaces
- High compressive strengths
- Withstands static loads such as fork lifts, steel wheeled equipment and machinery
- Withstands the damaging effects of repeated freeze thaw cycles
- Highly resistant to chemical attack from prolonged exposure to many aggressive chemicals such as industrial cleaners, oils, organic solvents, fats, urine, etc.

- Self curing, allows complete hydration of the Acrylflex compound resulting in shortened curing times and higher compressive strengths thus eliminating costly damp curing

SURFACE PREPARATION

Masonry and Concrete Surfaces

Must be sound and clean. Remove all dirt, dust, spalling or loose concrete, oil, grease, wax, mildew, efflorescence, curing compounds, form release agents, paint or any other foreign material which might effect the bond. **SEE WARNING ON BACK PAGE REGARDING PAINT REMOVAL.** A dry removal method such as a sand or shot blasting procedure will ensure a proper surface preparation.

Wet cleaning may also be used. If the size of the job does not justify the costs of such equipment, all preparations may be accomplished manually. All oil and grease must be scrubbed with a degreasing compound, rinsed thoroughly then allowed to dry. After cleaning oil or grease spots, sprinkle a little water on the cleaned surface to check for residual contamination. Oil or grease is still present if the water forms small globules. If the water is quickly absorbed, the surface is clean. Efflorescence must be washed with a mild solution of muriatic acid and water, rinsed thoroughly then allowed to dry.

If after cleaning, the surface is extremely dusty, porous or if there is any question of bonding, prime the surface with Bond All Exterior.

Any rusted or corroded rebar or metal within the area to be repaired must be sandblasted or wire brushed making sure all rust is removed. Coat all cleaned metal with a slurry coat of Acrylflex Fine/Add Mix-21.

Wood Floors

Must be clean, dust free, rigid and well fastened. Nail or screw heads must be set level with or below the surface. Plywood must be CDX grade, otherwise delamination may occur. **Wood Floors must first be primed with Bond All Exterior.**

Always perform a spot test (of sufficient size) prior to application in order to ensure compatibility between Acrylflex Fine and the substrate as well as to confirm that the appearance and performance are acceptable.

MIXING

In a clean container, mortar box or mixer, place a 40# bag of Acrylflex Fine. Then add enough Add Mix-21 to form a tight mortar like material. Each 40# bag of Acrylflex Fine should require approximately one gallon of Add Mix-21. Mix thoroughly but do not over mix and do not add water. After mixing, allow material to rest and then briefly remix.

As with any Portland cement-based material, mixing liquid should be kept to a minimum to avoid decreasing strength and adhesive properties.

APPLICATION

Place and trowel the material to the desired thickness, making sure all voids are filled. The finished surface may be steel troweled, floated or broom finished for a non-skid surface. If the Acrylflex Fine starts to pull or "tear" while finish troweling, sprinkle a small amount of Add Mix-21 on the surface and resume troweling. Working time is from 1/2 hour to one hour depending on the temperature and the humidity. If the original batch of material has stiffened too much to be easily troweled, it may be retempered once by adding more Add Mix-21. Although Acrylflex Fine is self curing, keep the finished surface damp to prevent a quick dry out when working in direct sunlight, wind or over very porous surfaces. Acrylflex Fine will be ready for light traffic in approximately one to two days depending on the thickness of the application and curing conditions.

CONTROL JOINTS

For uncovered floors, control joints should be used to control random cracking in the finished surface. When resurfacing concrete, the base concrete slab and the Acrylflex will move

together, so all working joints in the base slab must be reproduced in the Acrylflex. Joints must be full depth and be as wide or slightly wider than the existing control joints. If there are no control joints and the area to be resurfaced is greater than 200 square feet, joints must be cut into the Acrylflex with no dimension greater than 20 feet. Control joints may be hand tooled or saw cut.

COVERAGE

Per each 40 lb bag of Acrylflex Fine mixed with Add Mix-21:

Average Depth	Coverage
1/16".....	80 square feet
1/8".....	40 square feet
1/4".....	20 square feet

TEST DATA

Compressive Strength (ASTM C-109)
 3 Days.....5,900 psi
 7 Days.....6,900 psi
 28 Days.....7,800 psi

Tensile Strength (ASTM C-190)
 28 Days.....1,020 psi

Flexural Strength (ASTM C-348)
 28 Days.....1,540 psi

SPECIAL PRECAUTIONS

- Umaco Acrylflex Fine should be applied when the ambient and surface temperature are 50°F or above and will not fall below that for 48 hours.
- Do not apply over frost or frozen surfaces.
- Do not apply to CDX plywood in damp or exterior applications.
- Do not allow Add Mix-21 to freeze. If Add Mix-21 does freeze, discard.
- Clean all tools and mixing containers with water during and immediately after use.

WARNING!

Do not take internally. Contains Portland cement and Silica sand. May be irritating to the eyes and nose. Prolonged inhalation may cause lung injury. Avoid eye contact or prolonged contact with skin. Wash hands thoroughly with water after handling. In case of eye contact, flush with plenty of water for at least fifteen minutes. If irritation persists, consult a physician immediately. Dust masks, eye protection and gloves are recommended when using this product. Read Safety Data Sheet (SDS) before using this product which may be obtained from your retailer or by calling 978-453-8881.

24 Hour Emergency Medical/Spill Information (Chemtrec): 800-424-9300

KEEP OUT OF THE REACH OF CHILDREN!

WARNING! If you scrape, sand or remove old paint, you may release lead dust or fumes. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.**

Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log onto www.epa.gov/lead. Wear a properly fitted respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

For technical assistance call 978-453-8881

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LIMITED WARRANTY

The manufacturer guarantees its products to be free of defects and the extent of its liability is limited to the purchase price of the materials only, if proved to be defective.

Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturers or its dealers responsibility. There are no other guarantees either expressed or implied.



<p>Umaco, Inc. 60 Rear Newhall Street Lowell, MA 01852</p>		<p>Toll Free: 800-442-5535 Phone: 978-453-8881 Fax: 978-453-2416</p>
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