

# ADD MIX-21

## AN ACRYLIC POLYMER ADDITIVE DESIGNED TO ENHANCE THE PERFORMANCE PROPERTIES OF CEMENT BASED MIXES

**ADD MIX-21** is a specially formulated combination of polymers and modifiers designed to enhance the performance properties of Portland cement based mixes. Add Mix-21 is water-based and ready to use.

**When used as an admixture,** Add Mix-21 forms a plastic matrix which inhibits water evaporation thus improving cement hydration, resulting in higher compressive strengths. Add Mix-21 also increases tensile and flexural strengths as well as the adhesive bond of cement based mixes when applied over new or old masonry and concrete surfaces.

**When applied as a surface primer just prior to application,** Add Mix-21 provides a more workable surface and a superior bond between the properly prepared substrate and the newly placed material.

### USES

- An ideal admixture to use in concrete, repair mortars, thin overlays, stucco, pointing mortars and bedding mortars for tile, flagstone and brick.
- Slurries for anti-rust sealing and cold joint bonding.
- Tank, pipe and pool linings.
- Treads and landings on steel stairs.
- Terrazzo.

### ADVANTAGES

- Increases compressive, tensile and flexural strengths while also improving the adhesive bond to masonry, concrete, brick, block, stone, tile and CDX plywood (interior use only).
- Improves resistance to chipping and cracking.

- Reduces shrinkage.
- Improves abrasion and impact resistance.
- Does not require damp curing.
- Protects against repeated freeze-thaw cycles.
- Resists staining and discoloration.
- Improves water resistance.
- May be totally submerged after curing.
- UV stable, will not yellow.

### SURFACE PREPARATION

All surfaces to be repaired or coated must be structurally 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 area with Add Mix-21.**

Any exposed steel or rebar must be cleaned making sure all rust is removed. Prime cleaned steel with a slurry coat of Add Mix-21 and Portland cement. Deep patches should also be primed (prior to application) with a slurry coat of Add Mix-21 and cement to help eliminate any air pockets.

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

### MIXING

Before using, stir Add Mix-21 well or turn container over twice, do not shake. **When used as an admixture,** combine the Add Mix-21 and the appropriate amount of clean water in a clean container. Add the dry product and mix thoroughly to a tight mortar like consistency. Avoid over mixing as this will entrain air thus reducing compressive and adhesive strengths.

### MIXING PROPORTIONS

- For Acrylflex Fine, Acrylflex Regular, U-Patch or any other cement based mixes used to patch and resurface floors or for any cement based mix in which a maximum bond is needed:  
**Use full strength.**
- For mortars, cement based mixes applied to walls by trowel or for any cement based mix used for vertical and/or overhead patching:  
**1 part Add Mix-21: 1 part water**
- When used as a surface primer just prior to placing newly mixed cement based materials:  
**Use full strength.**



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## **APPLICATION**

After mixing, immediately trowel the material into place. Maximum time recommended for placement should not exceed 20 minutes. When finish troweling, use very little pressure. Avoid over troweling which may result in a polymer floatation or in a tearing of the surface. If the trowel drags too much, lightly sprinkle the surface with a 1:1 blend of water and Add Mix-21. The trowel should be cleaned frequently when finish troweling.

**When used as a primer**, brush or roll Add Mix-21 onto the properly prepared substrate producing a thin continuous film. Apply the newly mixed material while the surface is still wet. Do not allow Add Mix-21 to dry.

**Add Mix-21 is not re-emulsifiable.** CDX plywood (interior use only) must be primed twice, allowing the first coat to dry before the second coat is applied. When used as a primer, approximate coverage is 100-400 square feet per gallon. Coverage will vary depending on the surface texture and porosity.

## **CURING**

Add Mix-21 acts as a curing compound by holding water in the mix which results in a stronger finished product. Damp curing is not recommended under ordinary circumstances. However, in hot, dry or windy conditions the strength will be improved by a damp cure by covering the surface with wet burlap or polyethylene. Surfaces will cure in approximately 24 to 48 hours.

## **PRECAUTIONS**

- Add Mix-21 should only be used when the ambient and surface temperatures are between 50 degrees F and 90 degrees F.
- Do not apply over frost or frozen surfaces.
- Concrete repairs should be avoided when the temperature is above 90 degrees F.
- Wash hands and tools with water immediately after use.

## **WARNING!**

Do not take internally. Harmful if swallowed. If swallowed, do not induce vomiting. Drink two glasses of water. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Should vomiting occur be sure to keep victim's head below the hips to prevent aspiration of vomit into the lungs. **Seek immediate medical attention.** In case of contact with eyes, flush with plenty of water for 15 minutes. If irritation persists, seek medical attention. In case of skin contact, wash with soap and water. If irritation persists, seek medical attention.

Gloves and eye protection are recommended when using this product. Read Material Safety Data Sheet (MSDS) before using this product which may be obtained from your retailer or by calling 978-453-8881 or by visiting our website at [www.umaco.com](http://www.umaco.com). 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](http://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**

[www.umaco.com](http://www.umaco.com)

## **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.*

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- Concrete Patching and Repair Products
- Masonry Waterproofing Products
- Acrylic Admixtures and Bonding Agents



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