**UNIVERSAL 1023**

**Brush Applied, Water-Resistant Coating**

**UNIVERSAL 1023** may be applied as a cementitious, water-resistant coating over a variety of properly prepared, vertical masonry and concrete surfaces. Universal 1023 creates a permanent water-resistant barrier which prevents moisture migration.

**SURFACE PREPARATION**

Concrete and masonry surfaces must be sound, clean, dry and have a rough profile. Universal 1023 will not fill large voids or bridge large cracks. All deteriorated mortar joints, large voids and cracks must be repointed or patched then allowed to cure. Remove all dirt, dust, spalling or loose concrete, oil, grease, wax, mildew, efflorescence, laitance, curing compounds, form release agents, rust, paint or any other foreign material which might effect the bond. Chemical cleaning methods include detergents, acid etching, chemical strippers, paint removers and degreasers. After a chemical cleaning, be sure to neutralize the surface and rinse thoroughly.

**Smooth Surfaces**

A rough profile is recommended for proper adhesion and may be obtained by shot-blasting, scarifying, sandblasting, scabbling and water-blasting. After mechanical cleaning, remove any loose material by vacuuming.

**Rusted Rebar**

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 Universal 1023.

**New Concrete Foundations**

Before applying Universal 1023 on a new concrete foundation, all rod ties must be broken off close to the foundation, pushed back one to two inches and then filled with Umaco U-Plug. Honeycomb voids and holes left in the foundation for pipes must also be filled with U-Plug to ensure proper waterproof protection.

**PRIMING**

Prime the surface with Umaco Addmix-21 prior to the placement of the Universal 1023 in order to make the surface easier to work and yield a better bond.

**MIXING**

Mix each 50# bag of Universal 1023 with approximately 6 quarts of clean potable water. Add dry material (gradually) to water mixing completely for 1-2 minutes to form a creamy, lump free, pancake batter consistency. For best results, mechanical mixing is preferred using a 1/2" drill (500-650rpm) with a jiffy mixer. Only mix enough material that can be brushed on within 30-40 minutes.

For a slower set time, add one pack of Universal 1023 Retarder (approx. one teaspoon) to each 50# bag of Universal 1023 while mixing.

**APPLICATION**

Universal 1023 may be applied by a bristled masonry brush (for a finer texture a nylon paint brush) or by hopper spray gun equipment. Apply liberally filling all voids and pores in the substrate. When applied on concrete masonry units, a horizontal finished brush stroke is recommended to avoid brush marks. When applied on poured concrete, a vertical finished brush stroke will provide a neat finish. Two coats are required for proper waterproof protection.

**CURING**

When working in direct sunlight, high temperatures, extremely windy conditions or over very porous surfaces, lightly mist with water or cover with burlap until material sets to prevent a quick dry out.

**COVERAGE**

Approximate coverage per each 50 pound bag of Universal 1023:

- **Material** | **Coverage**
  - Concrete | 200-300 ft² (per coat)
  - Brick or Block | 200-250 ft² (per coat)

**PRECAUTIONS**

- Apply only when the ambient and surface temperatures are above 45°F and will remain so for at least 12 hours after application
- Do not apply if rain, snow or any other precipitation is expected within 24 hours
- Universal 1023 can be blended with most mortar & cement colors as long as the instructions from the color manufacturer (regarding dosage rates & proper use) are followed
- Review Safety Data Sheet before using this product.

**For technical assistance call**

978-453-8881

www.umaco.com

**“The Professional’s Choice”**

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