UNIVERSAL 1023 produces a durable, polymer-modified, high-strength and water-resistant basecoat for stucco, thin-brick, thin-stone and manufactured stone veneer systems when applied over galvanized wire lath.

**SURFACE PREPARATION**

Securely fasten the galvanized wire lath as per the manufacturer’s instructions or as per the specifications of the chosen installation system.

**Exterior-Grade Plywood Sheathing**

All plywood sheathing (and studs) should be the proper grade and moisture content (typically below 20%) for construction in order to prevent unnecessary cracking. A 1/8" space should be provided between the edges of adjacent sheathing panels to allow for expansion.

**CONTROL JOINTS**

The location of control joints and other accessories should be determined by the designer or architect. Placement of control joints should be selected to correspond with lines of anticipated potential building movement such as at the corners of openings in the stucco which includes vents, windows and doors. Panels should contain 144 ft² or less of surface area with no dimension greater than 18 feet in either direction or a length ratio of 2-1/2 to 1. This will reduce the chance of shrinkage cracks and will allow the entire panel to be stuccoed continuously with no overlaps or cold joints. Any existing control and expansion joints must be carried through the finish. Control joints are also required when two dissimilar substrates come together.

**MIXING**

Mix each 50# bag of Universal 1023 with approximately 4-1/2 quarts of clean potable water. Add dry material (gradually) to water mixing completely for 1-2 minutes to form a creamy, lump free consistency. For best results, mechanical mixing is preferred using a 1/2" drill (500-650 rpm) with a jiffy mixer. Only mix enough material that can be placed within 15-20 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**

Apply a thin coat of Universal 1023 with a stainless steel trowel over the entire area within the control joints or within the area being worked, firmly pressing the material while completely encasing the metal lath. Immediately double back and apply a second coat to produce a smooth and level surface (with no trowel marks) at a minimum of 1/8" to a maximum of 1/2". Finish the entire panel or work area in one application with no overlaps or cold joints. After the material firms, additional coats may be applied to obtain the desired thickness. If more than one hour has elapsed between coats, prime the surface with Bond All Exterior.

**CURING**

When working in direct sunlight, high temperatures, extremely windy conditions or over very porous surfaces, lightly mist with water until material sets to prevent a quick dry out. Allow Universal 1023 to cure a minimum of 24 hours before applying stucco, thin-brick, manufactured stone and thin-stone veneers.

**COVERAGE**

Approximate coverage per each 50 pound bag of Universal 1023:

<table>
<thead>
<tr>
<th>Average Depth</th>
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</tr>
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<tr>
<td>1/4&quot;</td>
<td>15-20 ft²</td>
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**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
**UNIVERSAL 1023**

**Basecoat over Concrete & Masonry**

**UNIVERSAL 1023** produces a durable, polymer-modified, high-strength and water-resistant basecoat for stucco, thin-brick, thin-stone and manufactured stone veneer systems when applied directly over vertical concrete and masonry surfaces.

**SURFACE PREPARATION**

Concrete and masonry surfaces must be sound, clean, dry and have a rough profile. 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 affect 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, scarfing, 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.

**PRIMING**

Vertical surfaces will be easier to work and yield a better bond if they are primed with Umaco Addmix-21 prior to the placement of the Universal 1023. For demanding applications, Umaco Bond All Exterior may be applied to the surface (in lieu of Addmix-21) in order to achieve exceptional bond strength.

**Concrete Block and Brick**

Differential suction between concrete masonry units (blocks or bricks) and the mortar joints may cause "photographing or ghosting" of the joint patterns after periods of rain. To ensure even absorption of Universal 1023, apply a coat of Umaco Transeal Clear to all block and brick surfaces then allow to dry for at least 24 hours before applying Universal 1023. When using Transeal Clear, do not first apply Addmix-21 or Bond All Exterior.

**MIXING**

Mix each 50# bag of Universal 1023 with approximately 4-1/2 quarts of clean potable water. Add dry material (gradually) to water mixing completely for 1-2 minutes to form a creamy, lump free consistency. For best results, mechanical mixing is preferred using a 1/2” drill (500-650 rpm) with a jiffy mixer. Only mix enough material that can be placed within 15-20 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**

Apply a thin coat with a stainless steel trowel over the entire area within the control joints or within the area being worked, firmly pressing the material into all voids and pores. Immediately double back and apply a second coat to produce a smooth and level surface (with no trowel marks) at a minimum of 1/8” to a maximum of 1/2”. Finish the entire panel or work area in one application with no overlaps or cold joints. After the material firms, additional coats may be applied to obtain the desired thickness. If more than one hour has elapsed between coats, prime the surface with Umaco Bond All Exterior. Allow Universal 1023 to cure a minimum of 24 hours before applying stucco, thin-brick, manufactured stone and thin-stone veneers.

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**PRECAUTIONS**

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- All control and expansion joints must be carried through.
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