UNIVERSAL 1023 may be used as a durable, polymer-modified, high-strength and water-resistant patching and repair mortar for vertical applications up to 2” thick in one application.

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 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.

PRIMING
In order to achieve exceptional bond strength, prime the area to be patched or repaired with Umaco Bond All Exterior. Apply by brush, working the material into all cracks and crevices but do not allow to puddle. Proper application should produce a thin continuous film. Allow Umaco Bond All Exterior to dry sufficiently to become slightly tacky before applying Universal 1023. Umaco Bond All Exterior can be allowed to dry completely since it is re-emulsifiable; however, the water sensitivity does decrease with time and the mixed Universal 1023 should be applied within seven days as long as the Umaco Bond All Exterior remains clean, dust free and intact.

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.

APPLICATION
Apply a tight coat with a stainless steel trowel working the material into all cracks, crevices and edges eliminating all air pockets. Patches over 2” need to be built up in successive layers. Each layer should be scratched and kept rough to ensure a good mechanical bond. Allow previous layer to tighten at least 20 minutes before applying another layer. If more than one hour has elapsed between coats, prime the surface with Umaco Bond All Exterior.

Finish the final surface with a trowel or sponge float.

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.

Umaco Color-Seal
Universal 1023 can be top-coated after 24 hours with Umaco Color-Seal which is a decorative stain/sealer available in a wide variety of colors.

COVERAGE
Approximate coverage per each 50 pound bag of Universal 1023:

<table>
<thead>
<tr>
<th>Average Depth</th>
<th>Coverage</th>
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<tbody>
<tr>
<td>1/4”</td>
<td>25 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.
- All control and expansion joints must be carried through.
- 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

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