ARDEX MRP™

Moisture Resistant Patch for Concrete to receive ARDEX Moisture Control Systems

Portland cement-based concrete patching and smoothing compound

Completely moisture resistant

Ideally suited for smoothing highly profiled concrete surfaces prior to the installation of ARDEX Moisture Control Systems

Easy to apply and hardens quickly

Suitable for commercial and residential applications

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ARDEX MRP™

Moisture Resistant Patch for Concrete to receive ARDEX Moisture Control Systems

Description And Usage

ARDEX MRP™ is a trowel-grade, cementitious patching and smoothing compound for filling and repairing heavily profiled indoor concrete on all grade levels prior to the installation of ARDEX Moisture Control Systems. Engineered with Portland cement and select high-performance polymers, ARDEX MRP bonds readily to concrete surfaces. It is easy to apply, hardens quickly, and produces a surface finish that is suitable for the installation of ARDEX Moisture Control Systems without having to re-profile the surface of the patch after it is installed. ARDEX MRP is recommended for commercial and residential applications.

Substrate Preparation

All concrete surfaces must be structurally sound, solid and free of any contaminant that might act as a bond breaker, including the removal of form release, existing sealers and paints, patching compounds, weak or loose areas, dust, dirt and oils. Overwatered, frozen or otherwise weak concrete surfaces must also be cleaned down to sound, solid concrete by mechanical methods. If necessary, the surface of the substrate must then be mechanically roughened to a minimum ICRI Concrete Surface Profile of 3 (CSP #3) or greater. Acid etching, adhesive removers, solvents, sanding and sweeping compounds are not acceptable means for cleaning the substrate. Thoroughly broom-sweep and vacuum the area to be resurfaced to remove any fine dust or dirt. Substrates must be dry for a successful installation. Substrate and ambient temperatures must be a minimum of 50°F (10°C) for the installation of ARDEX products. For further information, please refer to the ARDEX Substrate Preparation Brochure.

Dormant Cracks and Saw-Cut Joints

Non-moving cracks greater than a hairline in width (1/32" or 0.79 mm) and control joints (saw-cuts) must be filled with a two-part, low viscosity rigid crack and joint filler such as ARDEX ARDIFIX™ in strict accordance with the installation instructions provided by the manufacturer, and must receive a sand broadcast to refusal while the material is still fresh. Once the compound is fully cured, sweep and vacuum to remove all excess sand prior to repairing the area with ARDEX MRP. The filling of dormant cracks as described above is recommended to help prevent the cracks from telegraphing. However, should movement occur, cracks will reappear.

Moving Joints and Cracks

All moving joints and cracks must be honored up through the ARDEX Moisture Control System, ARDEX Underlayment and floor covering by installing a flexible sealing compound designed specifically for use over moving joints such as ARDEX ARDISEAL™ RAPID PLUS.

Recommended Tools

Mixing buckets, margin trowel, steel trowel, a mechanical mixing paddle and a 1/2" heavy-duty drill (12 mm, min. 650 rpm).

Mixing

Mix each 20 lb (9 kg) bag of ARDEX MRP with 2 1/2 quarts (2.36 L) of clean water. Pour the water in the mixing container first, and then add the ARDEX MRP. For best results, mix with an ARDEX T-2 Ring Mixing Paddle and 1/2" heavy-duty drill. Mechanical mixing will produce a creamier, smoother consistency without the need for additional water. **DO NOT OVERWATER!** Additional water will weaken the compound and lower its strength. To mix smaller quantities by hand, use 2.75 parts powder to 1 part water by volume. Use a margin trowel and mix vigorously for 2 to 3 minutes. Mix thoroughly to obtain a lump-free consistency.

The pot life of ARDEX MRP is approximately 20 minutes at 70°F (21°C). If the product begins to set in the bucket, remix before using. Do not add more water. In warm weather, use cold water to extend the working time. Cool ambient and surface temperatures will slow the setting time. ARDEX MRP is easily applied to any prepared concrete surface using standard concrete practices. Place a scratch coat of the compound onto an area of concrete using a steel trowel, applying enough pressure to ensure good compound-to-concrete contact before installing the full thickness.

Thickness of Installation

ARDEX MRP can be installed up to 1/4" (6 mm) neat over large areas, and can be tapered to meet existing elevations. It can also be installed up to 1/2" (12 mm) in small, well-defined areas such as pop-outs and spalls.

Curing

ARDEX MRP requires no special curing procedures, and is ready to receive ARDEX Moisture Control Systems once it has cured for a minimum of 16 hours.

Notes

The pot life of ARDEX MRP is approximately 20 minutes at 70°F (21°C). Pot life will vary with ambient temperatures.

Always install an adequate number of properly located test areas, including the ARDEX Moisture Control System, to determine the suitability of the products for the intended use.

Never mix with cement or additives. Observe the basic rules of concrete work. Do not install below 50°F (10°C) surface and air temperatures. Install quickly if substrate is warm, and follow warm weather instructions available from the ARDEX Technical Service Department.

Precautions

ARDEX MRP contains Portland cement. Avoid eye and skin contact. Mix in a well ventilated area and avoid breathing powder or dust. KEEP OUT OF REACH OF CHILDREN. Carefully read and follow all cautions and warnings on the product label. For complete safety information, please refer to the Material Safety Data Sheet or visit our website at www.ardexamericas.com

Technical Data According to ARDEX Quality Standards

All data based on a mixing ratio of 2.75 parts powder to 1 part water by volume at 70°F (21°C). Physical properties are typical values and not specifications.

Mixing Ratio:	2 1/2 quarts (2.36 L) of water per 20 lb (9 kg) bag; for smaller batches, use 2.75 parts powder to 1 part water by volume
Material: Requirement (approx.)	35 sq. ft. (3.2 m^2) per bag at 1/8" (3 mm) (The texture of the concrete being coated will affect this rate.)
Walkable:	Light foot traffic in 3 to 4 hours
Install ARDEX: Moisture Control	16 hours
Packaging:	20 lb (9 kg) net weight bags
Storage:	Store in a cool dry area. Do not leave bags exposed to sun.
Shelf Life:	One year if unopened
Warranty:	ARDEX Engineered Cements Standard Limited Warranty applies

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