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# ARDEX AM 100™

## Rapid Set Pre-Tile Smoothing and Ramping Mortar

**Job Done... Fast! Smooth optimal surface, tile in just 2 hours.**

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**Smooth concrete and masonry surfaces prior to tiling**

**Install tile in just 2 hours**

**Very easy to use: creamy and smooth, mix with water only**

**Water and frost resistant**

**Place from 1/4" to 1 1/4" in one coat**

**Use to smooth walls and floors**

**Especially suited for re-sloping balconies and sloping to drains**

**Interior and exterior**

**No sag or slumping**

**Excellent bond strength**

**Ideal for swimming pools, for smoothing of walls in underground transportation areas and other wet or damp areas**

**SystemOne™**

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# ARDEX AM 100™

## Rapid Set Pre-Tile Smoothing and Ramping Mortar

### Description and Usage

ARDEX AM 100™ is a unique smoothing and ramping mortar for vertical and horizontal concrete and masonry surfaces that significantly reduces the preparation time prior to the installation of all types of tile. It can also be used to slope balconies and create slope to drains. ARDEX AM 100 is ideal for use in wet areas for the smoothing of swimming pools, fountains and below-grade installations, such as subway stations.

### Substrate Preparation

All concrete and masonry substrates must be solid, structurally sound, thoroughly clean and free of oil, wax, grease, asphalt, latex and gypsum compounds, curing compounds, sealers and any contaminant that might act as a bond breaker. If necessary, mechanically clean the floor down to sound, solid concrete by shot blasting, grinding or similar. Over-watered, frozen or otherwise weak concrete surfaces must also be cleaned down to sound, solid concrete by mechanical methods. Acid etching, adhesive removers, solvents and sweeping compounds are not acceptable means for cleaning the substrate. Sanding equipment is not an effective method to remove curing and sealing compounds.

The substrate must be absorbent to receive ARDEX AM 100. Any additional preparation required to achieve this must likewise be mechanical.

Substrate and ambient temperatures must be a minimum of 50°F (10°C) for the installation of ARDEX products. Refer to the ARDEX Substrate Preparation Brochure at [www.ardexamericas.com](http://www.ardexamericas.com), ANSI A108 AN-2 "General Requirements for Subsurfaces," the Tile Council of America's "Handbook for Ceramic Tile Installation" for detailed information on surface preparation and guidelines for substrate construction.

### NOTE ON ASBESTOS-CONTAINING

**MATERIALS:** Please note that when removing existing flooring, any asbestos-containing materials should be handled and disposed of in accordance with applicable federal, state and local regulations.

### Recommended Tools

ARDEX T-2 Ring Mixing Paddle, mixing bucket, margin trowel, steel trowel, and a 1/2" (12 mm) heavy-duty drill (min. 650 rpm).

### Joints and Cracks

Under no circumstances should ARDEX AM 100 be installed over any joints or moving cracks. All existing expansion joints, isolation joints, construction joints and control joints, as well as all moving cracks, must be honored up through the ARDEX AM 100 and the tile in accordance with ANSI A108 AN-3.7.

### Mixing and Application

For one 40 lb. (18.14 kg) bag of ARDEX AM 100, use 4 - 4 1/4 quarts (3.75 - 4 L) of clean water. Pour the water in the mixing container first, and then add the ARDEX AM 100. For best results, mix with an ARDEX T-2 Ring Mixing Paddle and a 1/2" (12 mm) heavy-duty drill (min. 650 rpm). 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 3 1/4 parts of powder to 1 part of water by volume. Use a margin trowel and mix vigorously for 2 to 3 minutes. Just prior to application on the substrate, the mixture should be stirred again to ensure a creamy, smooth, lump-free consistency. The pot life of ARDEX AM 100 is approximately 30 - 45 minutes at 70°F (21°C). If stiffening or surface skinning occurs within this time, remix before using. **Do not add more water.**

After mixing, apply the ARDEX AM 100 to the substrate with the flat side of a trowel to obtain a solid mechanical bond. Immediately follow this by screeding the mortar to the desired thickness. Once placed to the desired thickness, allow the material to take a set (approx. 1 hour), and then finish the surface using a steel trowel. **NOTE:** Attempting to finish the surface with a steel trowel before it has taken a firm set will result in blistering.

### Thickness of Application

AM 100 can be installed from 1/4" (6 mm) up to 1 1/4" (32 mm). The thickness of the application should be calculated based on the surface profile of the substrate and the specified tolerances of the tile.

### Wear Surface

ARDEX AM 100 is not to be used as a permanent wear surface, even if coated or sealed. ARDEX AM 100 must be covered by and is suitable for the installation of all types of tile.

## Installation of Tile and Waterproofing

Install ceramic, quarry, porcelain and most natural stone tiles as soon as the ARDEX AM 100 can be worked on without damaging the surface (approx. 2 hours at 70°F / 21°C). If required, the ARDEX AM 100 can be waterproofed with ARDEX 8+9™ Waterproofing and Crack Isolation Compound once the surface appears dry (approx. 2 hours at 70°F / 21°C). For moisture-sensitive stone, allow the ARDEX AM 100 to cure 24 hours.

Drying time is a function of jobsite temperature and humidity conditions, as well as the installation thickness. Low substrate temperatures and/or high ambient humidity will extend the drying time. Adequate ventilation and heat will aid drying.

## Notes

FOR PROFESSIONAL USE ONLY.

Always install an adequate number of properly located test areas, including the tile, to determine the suitability of the products for the intended use. As tile materials vary, always contact and rely upon the tile manufacturer for specific directives regarding the intended end use of the product.

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 the substrate is warm, and follow warm weather instructions available from the ARDEX Technical Service Department.

To preserve its freshness, ARDEX AM 100 must be protected from air while not in use. Protect unused material by removing the air from the bag and sealing tightly. Open and reseal as necessary.

## Precautions

Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Material Safety Data Sheet (MSDS) available at [www.ardexamericas.com](http://www.ardexamericas.com).

## Technical Data According to ARDEX Quality Standards

All data based on a mixing ratio of 3 1/4 parts powder to 1 part water by volume at 70°F (21°C). Physical properties are typical values and not specifications.

<b>Mixing Ratio:</b>	4 - 4 1/4 quarts (3.75 - 4 L) of water per 40 lb. (18.14 kg) bag
	For smaller batches, use 3 1/4 parts powder to 1 part water by volume
<b>Coverage:</b>	22.5 sq. ft. per bag at 1/4" (2 sq. m at 6 mm) Coverage will vary depending on the texture of the surface being smoothed.
<b>Initial Set (ASTM C191):</b>	Approx. 1 hour
<b>Final Set (ASTM C191):</b>	Approx. 2 hours
<b>Install Tile:</b>	2 hours at 70°F (21°C); allow 24 hours for moisture-sensitive stone and waterproofing membranes
<b>VOC:</b>	0
<b>Packaging:</b>	40 lb. (18.14 kg) net bag weight
<b>Storage:</b>	Store in a cool, dry area. Do not leave bags exposed to sun. Protect unused material by removing air from bag and sealing tightly.
<b>Shelf Life:</b>	1 year, if unopened
<b>Warranty:</b>	ARDEX Engineered Cements Standard Limited Warranty applies.

AT-113 10-23-12

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For easy-to-use ARDEX Product Calculators and Product Information On the Go, download the ARDEX App at the iTunes Store or the Android Marketplace.



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