



ARDEX AM 100™

Rapid Set Pre-Tile Smoothing and Ramping Mortar

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

Smooth concrete and masonry surfaces prior to tiling

Install all types of 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, smoothing of walls in underground transportation areas and other wet or damp areas



ARDEX AM 100™

Rapid Set Pre-Tile Smoothing and Ramping Mortar

Suitable Substrates

- Concrete (structurally sound)
- Masonry (structurally sound)

Suitable Applications

- All grade levels
- Interior and exterior applications
- Walls and floors
- Re-sloping balconies and sloping to drains
- Wet or damp areas, including swimming pools, fountains and below-grade installations such as subway stations
- Areas to receive ceramic, quarry, porcelain and most natural stone tile
- 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.

Jobsite Conditions

During installation and cure, substrate and ambient temperatures must be a minimum of 50°F (10°C). Install quickly if the substrate is warm, and follow the warm weather installation guidelines available on our website.

Step 1: Substrate Preparation (Proper Prep™)

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.

Refer to ANSI A108 "General Requirements: Subsurface and Preparation by Other Trades" and the most current version of the TCNA "Handbook for Ceramic Tile Installation" for detailed information on surface preparation and guidelines for substrate construction.

Handle and dispose of asbestos-containing materials in accordance with prevailing regulations, which supersede the recommendations in this document.

For full details on Proper Prep, reference the following articles at www.ardexamericas.com/services/properprep:

- Article 1: Preparing Concrete for Bonded ARDEX or HENRY Applications
- Article 1.1: Preparing Concrete for ARDEX Underlayments
- Proper Prep Brochure

Step 2: Treating 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.

Step 3: Mixing and Application

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).

Water Ratio:	4 – 4 1/4 quarts (3.75 – 4 L) clean water per 40 lb. (18.14 kg) bag
Small Batches:	3 1/4 parts powder to 1 part water by volume
Pot Life:	Approx. 30 – 45 minutes at 70°F (21°C)

Mixing

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. If stiffening or surface skinning occurs within the pot life, remix before using. Do not add more water.

Application

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. Attempting to finish the surface with a steel trowel before it has taken a firm set will result in blistering.

Step 4: Thickness of Application

ARDEX 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.

Step 5: 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. Intended for use by professional contractors who are trained in the application of this product and/or similar products.

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.

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.

Dispose of packaging and residue in accordance with prevailing regulations. Do not flush material down drains. Do not reuse packaging.

Precautions

Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Safety Data Sheet (SDS) available at

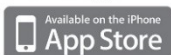
www.ardexamericas.com.

Technical Data According to Manufacturer Quality Standards

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

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

Visit www.youtube.com/ARDEX101 to watch ARDEX product demonstration videos. For recommended installation tools, visit DTA USA at www.dtausagroup.com. For easy-to-use ARDEX Product Calculators and Product Information On the Go, download the ARDEX App.



ARDEX Americas
400 Ardex Park Drive
Aliquippa, PA 15001 USA
888-512-7339

www.ardexamericas.com