ARDEX E 90™

Mortar Admix

Tile and Stone Mortar Enhancer

For use with select ARDEX tile and stone mortars (see chart for full details)

Improves adhesion and flexibility when setting all tile types

Achieves ISO 13007 S2 deformability when used with ARDEX X 90, X 77, X 78, S 28 and N 23

For interior or exterior use

Provides a water-repellant mortar for tiling showers, swimming pools and other wet areas; helps reduce the risk of efflorescence

Ideal for setting glass tile when used with ARDEX X 77 White along swimming pool water lines

Allows direct tile installation over existing tiles without profiling or priming

Suitable for use over in-floor heating systems

Low VOCs

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888-512-7339
www.ardexamericas.com

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Suitable Substrate and Suitable Applications

- Synthetic additive for use with select ARDEX tile and stone mortars; diluted with water prior to mixing with mortars (see chart below for mix ratios and full usage details).
- Results in a mortar that, once set and hardened, has high bond strength and excellent elastic and water-repellant properties.

Jobsite Conditions

During installation and cure, substrate and ambient temperatures must be a minimum of 50°F / 10°C. If installing over an in-floor heating system, turn the heating system off 48 hours before, during and at least 48 hours after completion of the installation.

Step 1: Substrate Preparation

Follow the substrate preparation instructions in the technical data sheet for the selected ARDEX tile and stone mortar.

Step 2: Mixing

See the chart on the back for the proper mix ratios when mixing ARDEX E 90 with ARDEX tile and stone mortars.

Pour the ARDEX E 90 and the water into the mixing container first and mix. Next, add the selected tile and stone mortar while mixing for 2 to 3 minutes. For best results, mix with an ARDEX T-2 Mixing Paddle and 1/2" heavy-duty drill (12 mm, min. 650 rpm). If mixing by hand, use a margin trowel and mix vigorously. Just prior to application on the substrate, the mixture should be stirred again to ensure a creamy, smooth, lump-free consistency.

Notes

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

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

Step 3: Application

Installation should proceed in accordance with ANSI A 108.5 and the technical data sheet for the selected mortar. After mixing, apply the mortar to the substrate with the flat side of a trowel to obtain a solid mechanical bond. Apply to an area no greater than that which can be covered with tile while the mortar remains plastic. Do not set tile or stone into skinned over mortar. Comb the mortar with a notched trowel of sufficient depth to ensure that the tile or stone is covered uniformly over the entire surface. Follow the recommendations of the Tile Council of North America for proper transfer of the mortar from the substrate to the tile or stone. The type and size of the tile or stone will dictate the size of the notched trowel to be used to achieve proper transfer.

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	
VOC:	0.2 g/L, calculated, SCAQMD
Storage:	Store at temperatures between 40 and 90°F (5-32°C). Do not freeze.
Shelf Life:	1 year, if unopened.
Warranty:	ARDEX L.P. Standard Limited Warranty applies. Failure to follow written directions will void the warranty. For complete warranty details, please contact our Customer Service Center at 888-512-7339.

Made in the USA.

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Mixing Ratios and Suitable Uses			
Thin Set:	**ARDEX E 90 per 40 lb. (18 kg) Bag**	**Water per 40 lb. (18 kg) Bag**	**Suitable Uses**
ARDEX X 5™ Flexible Tile and Stone Mortar	2 quarts (1.89 L)	4 quarts (3.79 L)	1. Standard applications of tiles and most natural stone* over wood and concrete where improved strength, flexibility or water repellency is needed 2. Tile-on-tile installations
ARDEX X 32™ MICROTEC® Fiber Reinforced, Rapid Set, Thin-to-Thick Bed Mortar	2 1/4 quarts (2.13 L)	4 1/2 quarts (4.26 L)	
ARDEX X 77 MICROTEC® Fiber Reinforced Tile and Stone Mortar	3 3/8 quarts (3.2 L)	6 3/4 quarts (6.38 L)	1. Standard applications of tiles and most natural stone* over wood and concrete where improved strength, flexibility or water repellency is needed 2. Tile-on-tile installations 3. Applications of mesh-backed tile and stone. 4. Improved deformability - ISO 13007 S 2 (≥ 0.2" / 5 mm)
ARDEX X 78 MICROTEC® Fiber-Reinforced, Semi-Pourable Tile and Stone Mortar	2 5/8 quarts (2.48 L)	5 1/4 quarts (5 L)	
ARDEX N 23™ MICROTEC® Rapid Set Natural Stone and Tile Mortar	2 1/2 quarts (2.37 L)	5 quarts (4.73 L)	
ARDEX X 77 (White only)	3 3/8 quarts (3.2 L)	6 3/4 quarts (6.38 L)	Installations of glass tile at the water line of a swimming pool**
ARDEX S 28™ MICROTEC® Rapid-Set, Rapid-Dry, Super-Format and Uncoupling Membrane Mortar	2 1/2 quarts (2.37 L)	5 quarts (4.73 L)	1. Applications of resin-coated or mesh-backed tile and stone 2. Tile-on-tile installations
ARDEX X 90 OUTDOOR™ MicroteC3 Rapid-Set, Flexible Tile and Stone Mortar	2 1/2 quarts (2.37 L)	5 quarts (4.73 L)	1. Standard applications of tiles and most natural stone* over wood and concrete where improved strength, flexibility or water repellency is needed 2. Applications of approved resin-coated or mesh-backed tile and stone 3. Tile-on-tile installations 4. Improved deformability - ISO 13007 S 2 (≥ 0.2" / 5 mm)
ARDEX X 65 Lite™	2 1/2 quarts (2.37 L)	5 quarts (4.73 L)	Installing over existing tiles and other non-porous surfaces

See appropriate technical data sheet(s) for complete installation details.

*For setting moisture-sensitive natural stone or agglomerate tile, use ARDEX X 32, ARDEX S 28 or ARDEX N 23 without ARDEX E 90 (interior, dry applications only).

**Tile must be installed in accordance with ASTM A108.16.

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