



ARDEX X 7™ PLUS

High Yield Thin Set Mortar

Use for setting quarry, moisture-insensitive stone, ceramic and all types of mosaic tile over concrete, masonry and cementitious surfaces

High yield

Flexible

Water and frost resistant

Excellent non-sag properties

Easy to mix and apply

5 hour pot life

Use for interior and exterior floors, walls and countertops



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ARDEX X 7™ Plus

High Yield Thin Set Mortar

Description And Usage

Polymer modified thin set mortar for setting quarry, moisture-insensitive stone, ceramic and all types of mosaic tile over concrete, masonry and cementitious surfaces. May also be used in swimming pools.

Substrate Preparation

ARDEX X 7™ PLUS adheres to both dry and damp substrates that are structurally sound, solid and free from any contaminant that can act as a bond breaker. Existing wallboards must be sound and solidly anchored to the structural components in the wall. The plane of wall surfaces must be plumb and true. Floor surfaces must have minimal variation in the plane or slope. Expansion joints must be provided over existing moving joints and cracks, and where substrate materials change composition or direction, per ANSI A 108 AN-3.7. Refer to ANSI A108 AN-2 "General Requirements for Subsurfaces" and the Tile Council of America's "Handbook for Ceramic Tile Installation" for detailed information on surface preparation and guidelines for substrate construction.

Should interior pre-leveling or subfloor repair be required, use ARDEX AM 100™, ARDEX TL PATCH™, ARDEX EB 2™, ARDEX LIQUID BACKERBOARD™ or ARDEX TL 1000™, as appropriate.

Highly absorbent substrates such as plaster must be primed with ARDEX P 51™ PRIMER diluted 1:3 with water (interior applications in dry areas only). Existing tiles, metal, glass, and other non-porous surfaces must be primed with ARDEX P 82™ ULTRA PRIME (interior applications in dry areas only). For exterior applications or in wet areas, non-porous substrates must be coated with ARDEX 8+9™ WATERPROOFING COMPOUND.

Mixing And Application

For one 40 lb (18 kg) bag of ARDEX X 7 PLUS, use 9 to 10 quarts (8.5 to 9.5 L) of clean water. Pour the water in the mixing container first, and then add the mortar powder. For best results, mix with an ARDEX T-2 Ring Paddle and 1/2" (12 mm) heavy-duty drill. To mix smaller quantities by hand for wall applications, use 2 parts by volume of powder to one part of water. For floor applications, use 1.75 parts powder to one part 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 X 7 PLUS is approximately 5 hours at 70°F (21°C). If surface skinning occurs within this time, remix before using.

Installation should proceed in accordance with ANSI A 108.5.

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 (approx. 10 minutes open time, depending on substrate and job site conditions). Comb the mortar with a notched trowel of sufficient depth to ensure that the tiles are covered uniformly over their entire surface. The type and size of the tiles will dictate the size of the notched trowel to be used. The position of the tiles may be corrected for approximately 15 minutes after installation.

Rough or uneven substrates may first be treated with a full scratch coat of ARDEX X 7™ PLUS up to 1/4" thick. Installation of tiles may begin after the scratch coat has hardened overnight.

Grouting

Wall tiles can be grouted after 8 hours; floor tiles after 24 hours. ARDEX recommends the use of ARDEX FLEX SANDED™ grouts in accordance with ANSI A108.10.

Notes

The pot life of ARDEX X 7™ PLUS is 5 hours at 70°F (21°C). If surface skinning occurs within this time, remix the mortar before using. Tile must not be applied to skinned-over mortar.

When setting certain types of tiles, it may be necessary to trowel a layer of mortar on the back of each tile prior to placement on the combed mortar bed in order to achieve the required mortar-to-tile contact. Press each tile firmly into the freshly combed mortar to ensure maximum mortar contact with the tile. Tiles must not be applied to skinned-over mortar.

When setting paper-faced glass mosaic or porcelain mosaic tiles, apply sufficient mortar such that when the mosaic is pressed into place, the mortar rises up through the joints. Any subsequent grouting necessary must also be done with ARDEX X 7™ PLUS.

In cases requiring waterproofing, refer to the ARDEX Technical Brochures for ARDEX waterproofing compounds.



For high traffic or high stress areas use ARDEX X 9™ PREMIUM SHEARFLEX® MORTAR or ARDEX FB 9 L™ POURABLE SHEARFLEX® MORTAR as appropriate.

For setting moisture-sensitive stones on interior applications, use ARDEX S 16™ or ARDEX S 20™.

ARDEX recommends the installation of test areas to confirm the suitability of the product for the intended use.

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

Precautions

ARDEX X 7™ PLUS contains Portland cement and sand aggregate. 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 product label. For complete safety information, please refer to the Material Safety Data Sheet or visit our website at www.ardex.com.

Technical Data According To ARDEX Quality Standards

All data based on a mixing ratio of 1.75 parts powder to 1 part water by volume at 70°F (21°C)

- Mixing Ratio:** 9 to 10 quarts (8.5 to 9.5 L) of water to one 40 lb (18 kg) bag.
Smaller batches for walls, use 2 parts powder to 1 part water.
Smaller batches for floors, use 1.75 parts powder to 1 part water.
- Coverage:** 105 sq. ft. (9.7 m²) per bag using a 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) Sq-notched trowel
75 sq. ft. (6.9 m²) per bag using a 1/4" x 3/8" x 1/4" (6 x 9,5 x 6 mm) Sq-notched trowel
52 sq. ft. (4.8 m²) per bag using a 1/2" x 1/2" x 1/2" (12 x 12 x 12 mm) Sq-notched trowel
- Open Time:** Approx. 10 minutes
- Working Time:** 15 to 20 minutes
- Pot Life:** 5 hours
- Time to Grout:** Walls 8 hours; Floors 24 hours
- Color:** Gray, White
- Packaging:** 40 lb/18 kg net weight
- Storage:** Store in a cool dry area. Do not leave bags exposed to sun.
- Shelf Life:** One year if unopened
- Warranty:** Please see the ARDEX SystemOne Warranty Brochure.

ANSI A 118.4 SHEAR BOND (28 DAYS)

Porcelain Tile	300 psi
Quarry Tile	275 psi
Wall Tile	400 psi

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IMPORTANT TECHNICAL UPDATES

Technical update effective June 28, 2018:
ARDEX Tile Mortar Thicknesses over Membranes

[CLICK HERE](#)

Technical update effective June 23, 2017:
ARDEX Tile Setting Materials over Membranes in Exterior Applications

[CLICK HERE](#)

Technical update effective September 18, 2017:
Recommendations for Resin-Backed Tiles

[CLICK HERE](#)

Technical update effective 2018-01-04:
Recommendation Clarifications for Glass Tile Installations

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