ARDEX is recognized around the world as the development and innovation leader for tile and stone installation systems. The first thin set mortars were developed by ARDEX in 1966. Today, ARDEX is leading the advancement of mortar and grout technologies with revolutionary MICROTEC® Technology.

ARDEX continues to make the most difficult jobs easier!
ARDEX MICROTEC® TECHNOLOGY

ARDEX’s ongoing innovation and leadership delivers the next generation in polymer-modified Portland cement-based formulations with MICROTEC® Technology. This exciting new technology introduces a specialized blend of high-performance microfibers into exclusive ARDEX polymer specialty cements providing real, tangible benefits including significant time and cost savings.

ARDEX MICROTEC® Technology is designed specifically to handle today’s most challenging installations including porcelain tile, large format tile, natural stones and installations in high-traffic, high-stress areas. ARDEX products like ARDEX X 77™ MICROTEC® have received double ISO 13007 certification standards in the areas of strength and open time.

ARDEX X 77™ MICROTEC®
Fiber Reinforced Tile and Stone Mortar
A smooth, creamy and easy to trowel polymer-modified mortar formulated with MICROTEC® Technology with outstanding strength, flexibility and sag resistance. ARDEX X 77 is perfect solution for the most difficult installations in any environment including large format thin tile installations.

The world’s best thin set mortar!

- True 60 minute open time
- Unmatched sag resistance
- Unique creamy consistency; extremely easy to apply
- Ideal for high traffic areas and exterior facades
- Pot Life: 3 hours
- 40lb. (18 kg) bag; Gray and White - 20lb. bag; white
- Outstanding coverage: 110 sq. ft. (10.2 m²)

ARDEX X 78™ MICROTEC®
Fiber Reinforced Semi-Pourable Tile and Stone Mortar
Ideal for the most challenging flooring installations including very large format tiles in high traffic areas such as malls, retail stores, lobbies, hotels and plazas. ARDEX X 78 is a polymer-modified mortar formulated with MICROTEC® Technology that is pourable, but still holds solid trowel lines and provides nearly 100% coverage without having to back butter.

- Open time: 60 minutes
- Very easy to apply
- Excellent flexibility and strength
- Will not contribute to efflorescence
- Pot life: 4 hours
- 40 lb (18 kg) bag; Gray and White
- Outstanding Coverage: 105 sq. ft. (9.75 m²)

ARDEX X 32™ MICROTEC®
Fiber Reinforced Rapid Set Thin to Thick-Bed Mortar
Proprietary self-drying formulation designed to handle the most challenging moisture sensitive natural stone, marble and granite installations, as well as set all other types of tile in exterior or interior applications. Ideal for all types of natural stone including ungauged and agglomerate stone.

- Thin to thick bed applications up to 1"
- Fast setting; grout in 3 hours
- Will not warp, stain or discolor moisture sensitive stone
- Working time: 20 to 30 minutes, Open time: 20 minutes
- Pot life: up to 60 minutes
- 40lb. (18 kg) bag; Gray and White
- Coverage: 80 sq. ft. (7.4322 m²)

ARDEX N 23™ MICROTEC®
Rapid Set Natural Stone and Tile Mortar
A rapid setting thin to medium bed mortar formulated with proprietary self-drying formulation to prevent warping, staining and discoloration of moisture sensitive stone including translucent marble and granite. Use to install all types of tile and stone and is ideal for ungauged and agglomerate stone.

- Rapid setting; grout in only 2 hours
- Unique creamy consistency; very easy to apply
- Thin to medium bed applications up to 5/8” (15 mm)
- Excellent sag resistance and strength
- Open time: 30 minutes
- Pot life: 60 minutes, Working time: 15 minutes
- 40 lb (18 kg) bag, Gray and White
- Coverage: 103 sq. ft. (9.5 m²)
**Tile and Stone Mortars**

**ARDEX X 7 R™ Rapid Set, Flexible Tile and Stone Mortar**

A versatile, easy to apply, rapid setting, polymer modified mortar formulated with enhanced properties of adhesion and flexibility. It is the ideal everyday fast-track solution for the installation of porcelain, quarry, ceramic, mosaic and most natural stone tile.

- Rapid setting; grout in just 2 hours
- Very good sag resistance
- Suitable for wet areas; showers and swimming pools
- Can be used with in floor heating
- Working and open times: 20 minutes
- Pot life: 30 to 40 minutes
- 40 lb (18 kg) and 20 lb (9 kg) bags; Gray
- Coverage: 85 sq. ft (7.9 m²) / 40 lb. bag

**ARDEX X 5™ Flexible Tile and Stone Mortar**

The ideal everyday solution for the installation of large format tiles. A highly versatile, polymer modified mortar with an easy to apply creamy consistency ideal for setting all sizes of porcelain, ceramic, quarry, mosaic and most natural stone tile over common interior surfaces and exterior concrete and masonry surfaces.

- Suitable for medium bed installations up to 3/4" sq. notch trowel
- Very good sag resistance
- 10 Year Warranty for installing Schluter®-DITRA®
- Working time: 15 to 20 minutes
- Open time: 10 minutes; Pot life: 3 hours
- 40lb. (18 kg) bags; Gray and White
- Coverage: 80 sq.ft. (7.4 m²)

**ARDEX X 4™ Tile and Stone Mortar**

The ideal everyday tile and stone mortar delivering performance and value. An easy to mix and apply, polymer-modified mortar with good sag resistance and strength for use with porcelain, ceramic, quarry, mosaics and most natural stone tile over common interior surfaces, as well as horizontal exterior installations of porcelain tile over concrete or masonry surfaces. ARDEX 4 is recommended for most common tile sizes.

- Working time: 15 to 20 minutes
- Open time: 10 to 15 minutes; Pot life: 3 hours
- 40lb. (18 kg) bags; Gray and White
- Coverage: 80 sq.ft. (7.4 m²)

**ARDEX X 3™ Tile & Stone Mortar**

Portland cement-based, polymer modified mortar with good sag resistance, bond strength and flexibility. Easy to mix and apply for setting ceramic, quarry, and most natural stone tiles. Can be used to set porcelain tile on interior, absorbent concrete or cementitious surfaces.

- Water and frost resistant
- Working time: 15 minutes
- Open time: 10 minutes, Pot life: 3 hours
- 40lb. (18 kg) bag Gray, White
- Coverage: 80 sq.ft (7.4 m²)
Specialty Mortars and Adhesives

ARDEX S 48™ Rapid-Set Thin Set Mortar/Mastic Hybrid Tile Adhesive

The most versatile tile setting material available for interior tile applications. A rapid setting polymer-modified, Portland cement based mortar that is ideal for fast-track installations of glass tile and backsplashes. Can be used with porcelain, glass, ceramic, quarry, mosaics and most natural stone tile over all common substrates. Suitable for use in intermittent wet areas including residential bathrooms and kitchens. Its creamy, smooth consistency is similar to a pre-mixed mastic making it extremely easy to apply.

- Time to grout: Walls: 1 to 3 hours, Floors: 5 hours
- Excellent for quick tile repairs and fixes
- Brilliant white color, ideal for translucent glass
- Working time: 10 to 20 minutes
- Open time: 20 minutes, Pot life: 30 minutes
- 10 lb. (4.5 kg), White
- Coverage: 80 sq. ft. (7.4 m²)

ARDEX FB 9 L™ Pourable ShearFlex® Tile and Stone Mortar

Portland cement-based polymer modified mortar with a unique, very fluid, pourable consistency that is ideal for horizontal large format tile installations. Holds solid trowel lines and delivers full coverage eliminating the need for back buttering. Can be used over in floor heating systems on concrete subfloors.

- Grout in just 6 hours
- Excellent shear strength and flexibility
- Working time: 30 minutes
- Open time: 30 minutes, Pot life: 3 hours
- 40lb. (18 kg) bags, Gray
- Coverage: 90 sq. ft. (8.36 m²)

ARDEX D 14™ Type 1 Premixed Tile Adhesive (Mastic)

A TYPE 1 premixed tile adhesive that is ideal for setting quarry, ceramic, mosaic and most natural stone tile over interior surfaces. Also, it can be used to set porcelain tile over absorbent interior surfaces. Use over interior concrete concrete block, drywall, plaster, brick and existing tile. Can be used for tubsurrounds and in intermittent wet areas.

- Easy to apply
- Floors up to 6" x 6" tiles, Walls up to 12" x 12" tiles
- Time to grout: walls: 24 hours, floors: 48 hours
- Working time: 60 minutes
- 1 gallon and 3.5 gallon pails (kg), White
- Coverage: 80 sq. ft. (7.4 m²)

ARDEX AF 207™ Pre-Mixed, Rapid-Set Schluter®-DITRA® Bonding Adhesive

A high performance adhesive formulated for the installation of Schluter®-DITRA® that allows for the immediate installation of tile once the DITRA® is set into place. Install DITRA® over wood, OSB and gypsum subfloors prior to the installation of tile or stone. Makes DITRA® installations extremely easy.

- Set tile immediately
- Ultimate convenience: pre-mixed and re-sealable containers
- GreenLine™ - Ultra low VOC’s, antimicrobial, water based, and solvent free
- Aggressive initial grab and ample working time
- Packaging: 1 and 4 gallon pails
- Coverage: 300 sq.ft. (4 gal. unit)

ARDEX CA 20 P™ Multipurpose Construction Adhesive

A one-component, modified silane, polymer adhesive and neutral curing sealant. Extremely flexible with excellent bond strength making it suitable for replacing tiles, general repairs and affixing accessories to tile and other surfaces. ARDEX CA 20 P is shrinkage free and can be used to fill moving joints. It bonds to a wide range of materials including glass, metal, wood, ceramics and plastic. Sticks to virtually anything even underwater!

- Interior and exterior use
- GreenLine™: zero VOC’s and free of solvents, water and isocyanates
- Paintable
- Curing Time: 24 hours
- Shrinkage: < 1%
- Coverage: 1/4" (6.35 m²)
  bead: 32 linear ft. (9.75 linear m)
  10.5 oz. (310 mL) cartridge
Grouts and Sealants

ARDEX FL™ Rapid Set, Flexible, Sanded Grout

A highly versatile, rapid setting sanded grout with a revolutionary creamy, fluid consistency that makes it extremely easy to apply and cover larger areas in significantly less time than traditional grouts. Super hard in the joints, but won’t stick to the tile. Use for interior or exterior floors and walls in commercial or residential applications. Ideal for high traffic areas and wet areas including swimming pools, fountains and showers.

- Open to traffic in just 90 minutes
- Excellent color consistency
- Much fuller, stronger grout joints
- Stain resistant and water repellant
- For grout joints 1/16” to 1/2” (1.5 mm to 12 mm)
- No slake time or sealers required
- Available in 35 ARDEX Colors
- 10 lb (4.5 kg) box /25 lb (11 kg) bag

ARDEX WA™ Epoxy Grout and Adhesive

A revolutionary solvent-free, two-component epoxy grout and adhesive with a unique creamy consistency. It is particularly suited for installations in swimming pools, hot tubs, showers, bathrooms, breweries, food processing facilities, industrial, restaurant kitchens, hospitals or any installation requiring high standards of hygiene and chemical resistance. So easy to apply and clean you won’t believe it’s an epoxy!

- Grout joints up to 1/2" (12 mm)
- Cleans with only water
- Use to set all types of tile
- Water and frost resistant
- Submerged applications: open in just 7 days
- Working time, open time and pot life: 60 minutes
- Available in 35 ARDEX Colors
- 100% solids, water soluble
- 9 lb. (4.08 kg) pail

ARDEX SG™ MICROTEC® Unsanded Floor and Wall Grout

A high-performance, Portland cement-based, polymer-modified unsanded grout for walls or floors. With a creamier consistency compared to traditional unsanded grouts, ARDEX SG-C is very easy to apply delivering full grout joints with an ultra-smooth finish. Use with porcelain, glass, quarry, ceramic and most natural stone tiles.

- Excellent color consistency
- Strong full grout joints
- Open to traffic in just 4 hours
- For grout joints up to 1/4" (6 mm)
- Porcelain tile- grout joints less than 1/8" (3 mm)
- No slake time or sealers required
- Available in 35 ARDEX Colors
- 10 lb (4.5 kg) box /25 lb (11 kg) bag

ARDEX FH™ Sanded Floor and Wall Grout

An ideal, everyday, Portland cement-based, polymer-modified sanded grout suitable for all sizes of floor and wall tiles, including mosaics. ARDEX FH is a creamy, easily applied grout with good joint filling properties, enabling deep joints to be filled in one operation. When cured, ARDEX FH is weather resistant, unaffected by water and is suitable for internal and external use in dry or wet conditions.

- For grout joints 1/16” to 3/4” (1.5 mm to 19 mm)
- Open to traffic: 16 to 24 hours
- Interior or exterior
- Working time and pot life: 2 hours
- Available in 30 ARDEX Colors
- Available in 30 ARDEX Colors
  (Not available in Azure Blue, Summer Yellow, Asparagus, Burnt Orange, Fresh Magnolia)
- 10 lb (4.5 kg) box /25 lb (11 kg) bag
**ARDEX SX 100% Silicone Sealant for Tile & Stone Installations**

One-component, non-sag, permanently flexible, 100% silicone, neutral-cure sealant for filling joints in tile and stone installations. Provides excellent adhesion and cures rapidly when exposed to atmospheric moisture, forming a durable, tight, stain-resistant bond. It is non-yellowing and can be used in pools and other wet area applications.

- Interior and exterior use
- No slag or slump
- Non-staining; non-yellowing
- Outstanding adhesion, permanently flexible
- UV, mold and mildew resistant
- Very easy to tool and smooth
- Submersion in water: 24 hours
- Available in 35 ARDEX colors and clear
- 10.1 fl. oz. (299 mL) cartridge

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Due to variations in printing processes, colors are approximate. Please refer to ARDEX Grout Kits for more accurate color comparisons. Types of tile, substrate and installation environment may cause color variation.

*Not available in ARDEX FH™

<table>
<thead>
<tr>
<th>Color Name</th>
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<tbody>
<tr>
<td>Polar White 01</td>
<td>Stone Beach 13</td>
<td>Stormy Mist 25</td>
</tr>
<tr>
<td>Fresh Lily 02</td>
<td>Chocolate Mousse 14</td>
<td>Organic Earth 26</td>
</tr>
<tr>
<td>Sugar Cookie 03</td>
<td>Gray Dusk 15</td>
<td>*Azure Blue 27</td>
</tr>
<tr>
<td>Antique Ivory 04</td>
<td>Ground Cocoa 16</td>
<td>Gentle Blush 28</td>
</tr>
<tr>
<td>Winter White 05</td>
<td>Coffee Bean 17</td>
<td>*Fresh Magnolia 29</td>
</tr>
<tr>
<td>Classic Vanilla 06</td>
<td>Dove Gray 18</td>
<td>Pink Champagne 30</td>
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<tr>
<td>Floating Driftwood 07</td>
<td>Silver Shimmer 19</td>
<td>*Burnt Orange 31</td>
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<tr>
<td>Vintage Linen 08</td>
<td>Ocean Gray 20</td>
<td>Baked Terra Cotta 32</td>
</tr>
<tr>
<td>Natural Almond 09</td>
<td>Slate Gray 21</td>
<td>*Asparagus 33</td>
</tr>
<tr>
<td>Irish Creme 10</td>
<td>Cast Iron 22</td>
<td>*Summer Yellow 34</td>
</tr>
<tr>
<td>Barley 11</td>
<td>Charcoal Dust 23</td>
<td>Brilliant White 35</td>
</tr>
<tr>
<td>Wild Mushroom 12</td>
<td>Black Licorice 24</td>
<td></td>
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</tbody>
</table>

TESLA Motors Showroom, Portland, Oregon.

ARDEX X 5™ Thin Set Mortar
Substrate Preparation

ARDEX Liquid BackerBoard®
Self-Leveling Underlayment

A Portland cement-based, polymer-modified, self-leveling underlayment that replaces traditional backer board, providing a flatter, smoother surface faster and easier for installing tile and stone. ARDEX Liquid Backerboard can be used over interior wood or concrete subfloors. It eliminates cutting, fitting, gluing, taping, fastening and the many other steps required with bulky, hard to transport traditional backer board.

The optimal tiling surface!

- No lath mesh or additives required
- Walk on: 3 hours, Tile installation: just 6 hours
- Installation thickness: up to 1 1/4” (32 mm)
- Use over in-floor heating
- Compressive Strength: 3000 psi (210 kg/cm²) at 28 days
- 50lb. (22.7 kg) bag, gray
- Coverage: 65 sq.ft. per bag at 1/8” (6 m² at 3 mm)

ARDEX AM 100™ Rapid-Set,
Pre-Tile Smoothing and Ramping Mortar

A unique repair and smoothing compound for concrete and masonry surfaces that significantly reduces prep time for the installation of tile. It can also be used to slope balconies and drains. It is water and frost resistant making it ideal for use in wet areas such as swimming pools, fountains and below grade installations. Can be used as a brown coat for manufactured/natural veneer stone installations

- Install tile in just 2 hours
- No sag or slump
- 1/4” (6 mm) to 1 1/4” (32 mm) in just one lift
- Interior or exterior use
- 40 lb. (18.14 kg) bag
- Coverage: 22.5 sq. ft. per bag at 1/4” (2 m² at 6 mm)

ARDEX TL™ PATCH Underlayment
Patch and Skimcoat

Portland cement-based patch and skimcoat specifically designed for the fast patching and repair of concrete, wood and cutback adhesive to provide a permanent, smooth finish prior to tile installation. ARDEX TL Patch is moisture and mildew resistant.

- Walk on time: 30 minutes
- Tile installation time: 60 to 90 minutes
- Installation thickness: From featheredge up to 1” (25 mm)
- Packaging: 25lb. (22.7 kg) bag
- Coverage: 22 sq.ft. (2.0439 m²) at 1/4” (6 mm)

ARDEX TL WOOD™ Self-Leveling Underlayment

ARDEX TL WOOD™ Self-Leveling Underlayment for Wood and Distressed Gypsum Subfloors

A self-leveling underlayment used for smoothing and leveling wood subfloors and for repairing and finishing distressed gypsum substrates above grade prior to the installation of tile and stone floors. It hardens quickly and dries fast without shrinking, cracking, or spalling.

- Use over plywood, OSB, and strip wood flooring as well as existing gypsum substrates prior to the installation of tile or stone
- Install tile in 48 hours, other floor coverings in 2-3 days
- No metal lath required
- Install from 1/4” (6 mm) to virtually any thickness; can be tapered to 1/16” (1.5 mm)
- Needs no special curing
- Use for interior, above grade floors only
- Suitable for use with in-floor hydronic and electric radiant heating systems
- Coverage – 22 sq. ft. per bag at 1/4” (2.04 m² at 6 mm)
**Waterproofing, Sound Control and Crack Isolation**

**ARDEX 8+9™ Rapid Waterproofing and Crack Isolation Compound**

The absolute best-in-class, topside waterproofing and crack isolation membrane for use on all common substrates in commercial and residential applications prior to the installation of any type of tile or stone. Two components, very easy to use, cement based waterproofing and crack isolation compound providing outstanding bond to mortars. ARDEX 8+9 can also be used as a shower pan. Ideal for use in showers, kitchens and for exterior manufactured veneer stone installations.

- Tile installation in just 90 minutes
- Flood test in only 4 hours
- Crack isolation: Up to 1/8” (3 mm)
- 1/3 the cost per square foot vs. competitive products
- 10 year warranty on a two-coat application every time
- IAPMO Certified, ANSI A 118.10
- Convenient kit: ARDEX 8 (liquid): 1 gallon (3.78 liters) bottle and ARDEX 9 (powder): 9 lb. (4 kg) bag
- Commercial size: ARDEX 8 (liquid): 3 gallon (11.34 liters) bottle and ARDEX 9 (powder): 27lb. (12 kg) bag

**Outstanding Coverage:**
Convenient kit: 100 sq.ft. (9.29 m²) (2 coats) over drywall
Commercial units: 300 sq.ft. (27.87 m²) (2 coats) over drywall

**ARDEX DS 70™ Acoustic Mat**

High-performance, durable sound isolation underlayment made from post-consumer recycled rubber for use under hard surface floor coverings. ARDEX DS 70 delivers dual protection by providing excellent sound reduction and crack isolation. Light Commercial through Extra Heavy Commercial ratings (ASTM Robinson Test).

- Fast and easy installation with ARDEX AF 207™ Pre-Mixed Adhesive
- Crack isolation: up to 1/8” (3 mm)
- Set tile directly onto ARDEX DS 70
- Environmental and LEED®: 92% post-consumer recycled rubber

**Available Sizes:**
- 2 mm Mat - 48” wide x 75’ long (1.2 m wide x 22.9 m long) – 300 sq.ft. (27.87 m²)
- 5 mm Acoustic Mat - 48” wide x 30’ long (1.2 m wide x 9.1 m long) roll – 120 sq.ft. (11.15 m²)
- Perimeter Isolation Strip (6 mm) - 2 1/2” wide by 30’ long (64 mm wide by 9.14 m long)

**Sound Ratings:**
- 16 dB – 2 mm mat
- 19 dB – 5 mm mat
ARDEX Tile & Stone Installation Systems Warranty

All ARDEX Tile & Stone Installation Products come with a one year standard product warranty. When used in a system with other ARDEX products, the entire system is covered under the SystemOne™ extended warranty program providing industry best comprehensive coverage.

<table>
<thead>
<tr>
<th>Substrate Prep</th>
<th>Setting Materials</th>
<th>Waterproofing</th>
<th>Grouts/Caulks</th>
</tr>
</thead>
</table>
| **10 Year Full Replacement Warranty** | ARDEX Liquid BackerBoard®  
ARDEX AM 100™  
ARDEX AF 207™  
ARDEX A 38™  
ARDEX EB 2™ | ARDEX X 77™  
ARDEX X 78™  
ARDEX X 32™  
ARDEX X 5™  
ARDEX X 7 R™  
ARDEX S 48™  
ARDEX FB 9 L™  
ARDEX N 23™ | ARDEX 8+9™  
ARDEX FL™  
ARDEX FG-C™  
ARDEX WA™  
ARDEX SX™ |
| **5 Year Full Replacement Warranty** | ARDEX TL Patch™  
ARDEX TL 1000™  
ARDEX TL Wood™ | ARDEX X 4™  
ARDEX X 3™  
ARDEX D 14™ | ARDEX FHT™ |

For more information about these and other ARDEX products, please visit www.ardexamericas.com
ARDEX X 77™ Thin Set Mortar and ARDEX FL™ Grout