

ARDEX Americas

Swimming Pool Guide

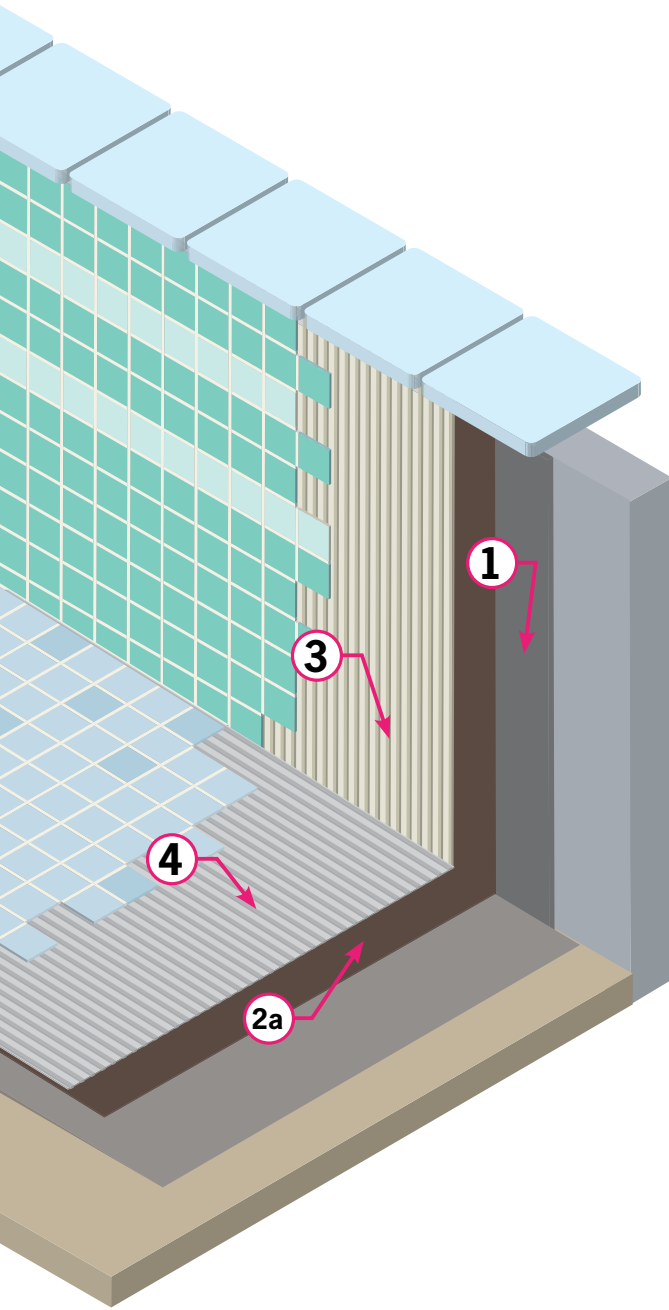


tile & stone
Installation Systems

SystemOne[™]
Single Source Comprehensive Warranty

A BETTER
WAY TO
TILE

The ARDEX Pool System Wall Preparation



WALLS – SMOOTHING AND REPAIR

ARDEX AM 100™ Rapid Set Pre-Tile Smoothing and Ramping Mortar for use as a wall screed prior to tiling. ARDEX AM 100 can be applied from 1/4" (6 mm) to 1 1/4" (32 mm) in just one coat and tiling can begin after 2 hours at 70°F (21°C).

FLOORS – PREPARATION

The diagram (opposite page) shows the use of ARDEX A 38™ Rapid-Set Screed to make up screed levels to falls, if required, on a concrete base prior to ceramic floor tiling. For bonded applications, use ARDEX E 100™ Screed Improvement and Bonding Slurry Additive with ARDEX A 38 or ARDEX A 38 MIX™ Rapid-Set Pre-Mixed Screed.

WALLS AND FLOORS – WATERPROOFING AND CRACK ISOLATION

Use ARDEX 8+9™ Rapid Waterproofing and Crack Isolation Compound (3 coats) or ARDEX SK 175™ Waterproofing Membrane and Vapor Retarder (1 layer) to ensure your swimming pool is watertight and free from leaks. Apply to walls and floors prior to tiling. Use ARDEX SK MESH™ Reinforcement Fabric with ARDEX 8+9™ Rapid Waterproofing and Crack Isolation Compound and ARDEX SK 175™ Seam Tape with ARDEX SK 175™ Waterproofing Membrane and Vapor Retarder. Use ARDEX SK DRAIN™ Mesh Reinforcement Fabric for Drain Tie-Ins where required.

WALLS – TILE INSTALLATION

Install mosaic or wall tiles with ARDEX X 77™ MICROTEC® Fiber Reinforced Tile and Stone Mortar for a strong, durable, long-lasting bond.

FLOORS – TILE INSTALLATION

Ensure solid bedding of the tiles is achieved when fixing mosaics or floor tiles with ARDEX X 77™ MICROTEC® Fiber Reinforced Tile and Stone Mortar. When installing large format tiles on a horizontal surface, use ARDEX X 78™ MICROTEC® Semi-Pourable Tile and Stone Mortar for full coverage.

GLASS TILE INSTALLATION – WALLS AND FLOORS

When installing glass tile in a pool, or any submerged application, use ARDEX WA™ High Performance, 100% Solids Epoxy Grout and Adhesive to set and grout the tiles. If glass tile is to be installed along the splash (water) line only, ARDEX X 77™ MICROTEC® Fiber Reinforced Tile and Stone Mortar with ARDEX E 90™ Mortar Admix can be used for this application.



1

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



2a

ARDEX 8+9™
Rapid Waterproofing and Crack
Isolation Compound



2b

ARDEX SK 175™
Waterproofing Membrane
and Vapor Retarder for Tile
& Stone Installations



3

ARDEX X 77™ MICROTEC®
Fiber Reinforced
Tile and Stone Mortar



GROUTING WALLS AND FLOORS

1. ARDEX FL™ Rapid Set, Flexible, Sanded Grout
2. ARDEX WA™ High Performance, 100% Solids Epoxy Grout and Adhesive

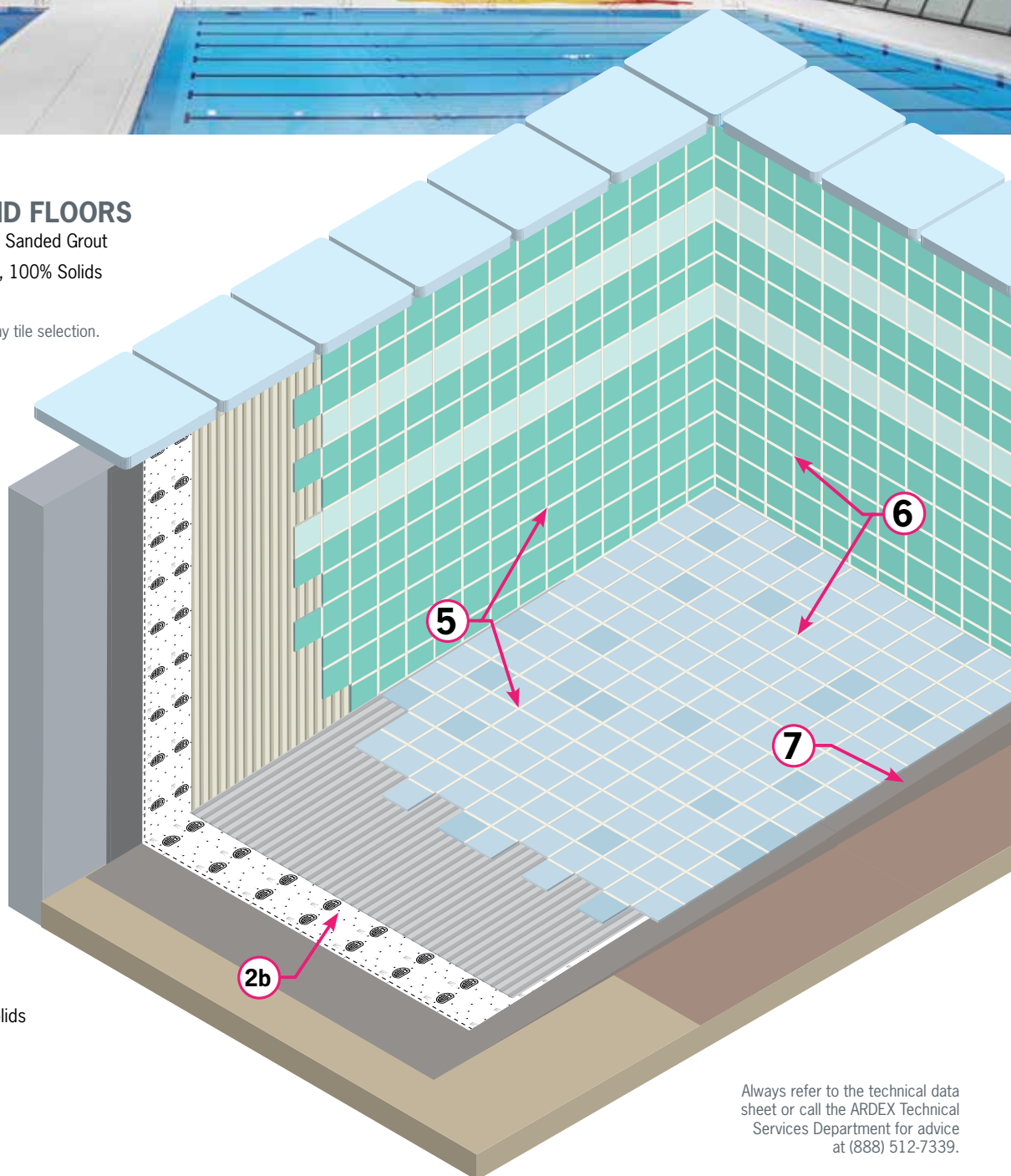
Available in 35 ARDEX colors to match any tile selection.



- 5** **ARDEX FL™**
Rapid Set, Flexible,
Sanded Grout
*For grout joints on floors
or walls 1/16" to 1/2"
(1.5 mm to 12 mm)*



- 6** **ARDEX WA™**
High Performance, 100% Solids
Epoxy Grout and Adhesive
*For grout joints on floors or
walls up to 1/2" (12 mm)*



Always refer to the technical data sheet or call the ARDEX Technical Services Department for advice at (888) 512-7339.



- 4** **ARDEX X 78™ MICROTEC®**
Semi-Pourable Tile
and Stone Mortar

The information supplied in ARDEX literature or given by ARDEX employees is based upon extensive experience and, together with that supplied by ARDEX distributors, is given in good faith in order to help you. ARDEX guarantees the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof. For detailed information and advice please visit www.ardexamericas.com or call our Technical Services Department at (888) 512-7339.



- 7** **ARDEX A 38™** Rapid-Set Screed
ARDEX A 38™ MIX Rapid-Set Pre Mixed Screed
ARDEX E 100™ Screed Improvement and Bonding Slurry Additive

Screed Type	Minimum	Maximum
Bonded	3/4" (19 mm)	1 1/2" (40 mm)

Swimming Pool REPAIR

Swimming pool repairs are a very cost effective way to fix loose tiles or leaks to small areas without a complete replacement.

1. Drain the pool
2. Assess the pool and pool areas loose tiles or areas of damage
3. Fill any gaps, holes or areas of damage with **ARDEX AM 100™** to provide a flat, even surface to install tile
4. Apply **ARDEX 8+9™** Rapid Waterproofing and Crack Isolation Compound (3 coats) to any area repaired with **ARDEX AM 100™**.
5. Set the tile with **ARDEX 77™ MICROTEC®**. **ARDEX E 90™** Mortar Admix can be added to the ARDEX X 77 for enhanced adhesion and flexibility if desired.
6. Grout with **ARDEX FL™** Rapid Set, Flexible Grout or **ARDEX WA™** Epoxy Grout, available in 35 ARDEX colors.

For further technical recommendations, please contact the ARDEX Technical Department (888) 512-7339.

ARDEX AM 100™ Rapid Set Pre-Tile Smoothing and Ramping Mortar – A rapid set (tile in just 2 hours) smoothing compound ideal for repair and smoothing of cementitious surfaces to receive tile.

ARDEX 8+9™ Rapid Waterproofing and Crack Isolation Compound – A two component, very easy to use, cement-based waterproofing and crack isolation compound providing outstanding bond to mortars. Install tile in just 90 minutes, flood test in only 4 hours, and receive a 25 year warranty on two-coat applications, every time!

ARDEX X 77™ MICROTEC® – A fiber reinforced, flexible polymer modified mortar with a 60 minute open time (double the ISO standard) that is unaffected by water with outstanding bond strength and sag resistance.

ARDEX E 90™ Mortar Admix – Provides enhanced levels of adhesion and flexibility to mortars.

ARDEX WA™ 100% Solids Epoxy Grout and Adhesive – A very easy to apply and clean epoxy grout that provides a highly durable waterproof finish with chemical resistance ideal for pools and showers where high levels of hygiene are required.

ARDEX FL™ Rapid Set, Flexible Sanded Grout – Water repellent and stain resistant grout ideal for use in submerged areas; for grout joints 1/16" (1.5 mm) to 1/2" (12.7 mm).



Locker Rooms, Gang Showers and Pool Surrounds

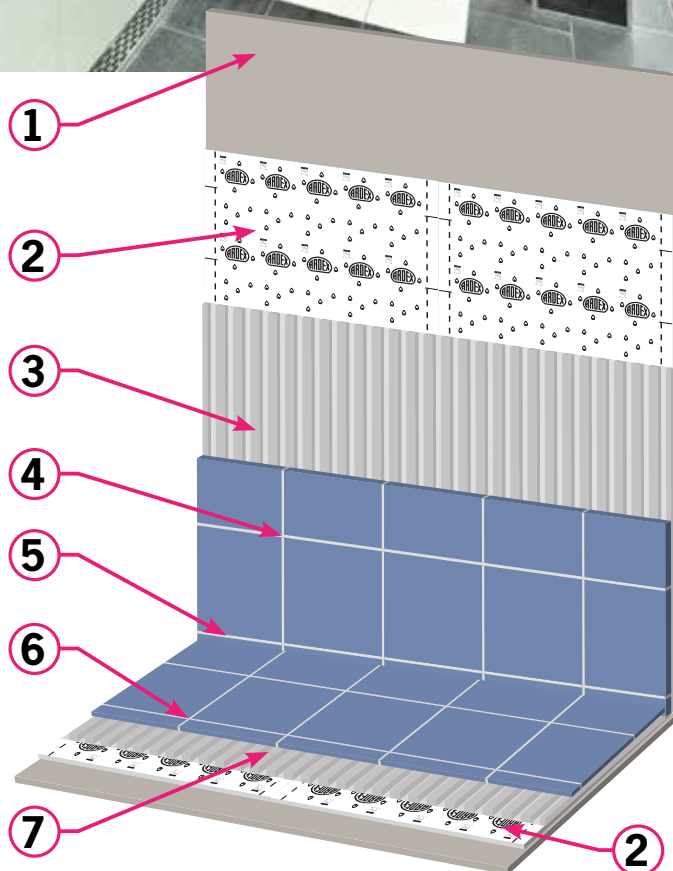
ARDEX delivers complete systems for locker rooms, showers and pool surround areas.

Many locker rooms are now including in floor heating in the specifications. ARDEX A 38™ and ARDEX A 38 MIX™ Rapid Set Screed can be used over in floor heating in wet or submerged area.

Installation of showers, wet areas and locker rooms require the substrate to have top side waterproofing to protect against leakage and disbonding of the tiles. ARDEX SK 175™ Waterproofing Membrane and Vapor Retarder is the optimal sheet waterproofing option for use in showers, wet areas and as a vapor retarder for use in commercial steam rooms. ARDEX 8+9 Waterproofing Compound is a fast, easy, two component, cement based compound perfect for showers and wet areas.



- 1 **ARDEX AM 100™** Rapid Set Pre-Tile Smoothing and Ramping Mortar – A rapid set (tile in just 2 hours) smoothing compound
- 2 **ARDEX SK 175™** Waterproofing Membrane and Vapor Retarder for Tile & Stone Installations – A pliable, sheet-applied, bonded waterproof membrane and vapor retarder with an acceptable perm rating for commercial steam showers
- 3 **ARDEX X 77™ MICROTEC®** Fiber Reinforced Tile and Stone Mortar – A fiber reinforced, highly flexible polymer modified mortar unaffected by water with outstanding bond strength and sag resistance, featuring a true 60 minute open time (double the ISO standard)
- 4 **ARDEX FL™** Rapid Set, Flexible Sanded Grout Water repellent and stain resistant grout – Ideal for use in showers and wet areas for grout joints 1/16" (1.5 mm) to 1/2" (12.7 mm)
- 5 **ARDEX SX™** 100% Silicone Sealant – Easy to apply and available in all 35 ARDEX colors and clear
- 6 **ARDEX WA™** 100% Solids Epoxy Grout and Adhesive – A very easy to apply and clean epoxy grout that provides a highly durable waterproof finish with chemical resistance ideal for pools and showers where high levels of hygiene are required
- 7 **ARDEX X 78™ MICROTEC®** Semi-Pourable Tile and Stone Mortar – A 60 minute open time (double the ISO standard), semi-pourable tile and stone mortar, along with outstanding bond and shear strength



The Complete Single Source System for Swimming Pool Installations

ARDEX offers a complete system approach for the installation of swimming pools, from rapid drying floor screeds that ensure the perfect sub-floor for tile installations, to high performance tile and stone mortars and grouts.

SUBSTRATE PREPARATION



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

- 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



ARDEX A 38™ Rapid Set Screed or ARDEX A 38™ MIX Rapid-Set Pre Mixed Screed

- Rapid hardening – walkable in 3 hours
- Suitable for bonded, unbonded or floating screeds
- Install tile and natural stone after only 4 hours
- Interior and exterior applications
- Exceeds the 28-day strength properties of ordinary screeds after just 1 day
- Available in 40 lb. (18 kg) premixed and 50 lb. (22.7 kg) binder only bags.

For bonded applications, use ARDEX E 100™ Screed Improvement and Bonding Slurry Additive.

WATERPROOFING

ARDEX waterproof coatings ensure your swimming pool or shower areas are watertight and leakage-free.



ARDEX 8+9™ Rapid Waterproofing and Crack Isolation Compound

- Tile installation in just 90 minutes
- Flood test in only 4 hours
- Crack isolation: Up to 1/8" (3 mm)
- Outstanding coverage:
Convenient kit: 100 sq. ft. (9.29 m²) (2 coats)
Commercial units: 300 sq. ft. (27.87 m²) (2 coats) over drywall

Available in White or Gray



ARDEX SK 175™ Waterproofing Membrane and Vapor Retarder for Tile & Stone Installations

- Just 1 layer required for swimming pools
- Very low per rating (.04); approved for use in commercial steam showers
- Interior and exterior applications
- Easy to cut and apply; use with ARDEX high-performance polymer modified mortars



ACCESSORIES

ARDEX SK 175™ Seam Tape

Available sizes: 4.75" x 16' (12.1 cm x 5 m) Roll
4.75" x 98' (12.1 cm x 30 m) Roll

ARDEX SK 175™ Inside Corners

ARDEX SK 175™ Outside Corners

ARDEX SK 175™ Pipe Collar

ARDEX SK MESH 25™ Reinforcement Fabric

Available sizes: 4.75" x 81.75' (120 mm x 25 m) Roll
36" x 81.75' (914 mm x 25 m) Roll

ARDEX SK MESH 50™ Reinforcement Fabric

Available sizes: 4.75" x 163.5' (120 mm x 50 m) Roll
36" x 163.5' (914 mm x 50 m) Roll

ARDEX SK DRAIN™ Pre-Cut Drain Tie-In

Available sizes: 16.75" x 16.75" (425 mm x 425 mm)
Pack of 10





TILE AND STONE MORTARS

ARDEX MICROTEC® Tile and Stone Mortars have unique features including extended open times, outstanding bond strength, and ultra-rapid setting properties which allow tile to be grouted faster.



ARDEX X 77™ MICROTEC® Fiber Reinforced Tile and Stone Mortar

- Unmatched sag resistance - Double the ISO standard
- 60 minute open time - Double the ISO standard
- Very easy to mix and apply, creamy smooth consistency
- Medium bed applications (large and heavy tiles)



ARDEX FL™ Rapid Set, Flexible, Sanded Grout

- Rapid set - open to traffic in just 90 minutes
- Use for grout joints from 1/16" to 1/2" (1.5 mm to 12.7 mm)
- Ideal for swimming pools and showers
- No sealer or slaking required
- Submerged application in 72 hours



ARDEX X 78™ MICROTEC® Semi-Pourable Tile and Stone Mortar

- Open time: 60 minutes - Double the ISO standard
- Very easy to apply creamy consistency
- Excellent flexibility and strength
- Will not contribute to efflorescence
- Full coverage ideal for large format tiles



ARDEX WA™ High Performance, 100% Solids Epoxy Grout and Adhesive

- Use to grout joints up to 1/2" (12 mm) wide
- Ideal for swimming pools, hot tubs and other wet areas
- Can be submerged after only 7 days
- Waterproof and frost resistant
- Solvent free, low VOC's



ARDEX WA™ High Performance, 100% Solids Epoxy Grout and Adhesive (Also for use as a Setting Adhesive)

- Up to 60 minute open time
- Excellent pot life; 40 minutes
- Traffic and grout in just 12 hours
- Great coverage; 19.5 sq. ft. using 1/4" x 1/4" 1/4" sq. notch trowel
- Submerged applications after only 7 days



SEALANTS

ARDEX SX™ 100% Silicone Sealant for Tile and Stone Applications

- Interior and exterior use
- No sag or slump
- Non-staining; non-yellowing
- UV, mold and mildew resistant
- Submersion in water: 24 hours
- Available in 35 ARDEX colors including clear



ARDEX Americas Swimming Pool Guide



ARDEX SystemOne™ Tile & Stone Installation Swimming Pool Systems Warranty

When used for a pool system, all ARDEX products are covered under the ARDEX 10-Year SystemOne™ extended warranty program providing industry-best, comprehensive coverage.

*For questions regarding salt water pool installations, please contact the ARDEX Technical Services Department at (888) 512-7339.

SystemOne™

Single Source Comprehensive Warranty



tile & stone
Installation Systems

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