ARDEX AMERICAS | Engineered Concrete Repair Systems

Concrete Repair | Exterior Wear Surfaces
Horizontal, Vertical and Overhead Repair
Joint Sealants | Substrate Preparation
ARDEX Americas, one of the largest ARDEX corporate units, encompasses the U.S., Canada, Mexico, Central and South America, and the Caribbean Basin.

ARDEX Engineered Cements introduced ARDEX K 15® Premium Self-Leveling Underlayment to the United States in 1978. The original self-leveling underlayment remains the most specified underlayment today. This same industry-leading spirit of innovation continues as ARDEX Americas raises the bar for industry standards in research, development, technical support and architectural services.

The original self-leveling underlayment remains the most specified underlayment today.

低VOC | 低气味 | 对于LEED®积分有贡献

ARDEX Americas致力于开发消耗 fewer natural resources and reduce emissions.

ARDEX AMERICAS LINE OF SUPERIOR PRODUCTS
- Tile & Stone Installation Systems
- Subfloor Preparation and Toppings
- ARDEX MC™ Moisture Control Systems
- ARDEX Polished Concrete Systems™ (APCS)
- Engineered Concrete Repair Systems (ECRS)
- ARDEX PANDOMO®
- ARDIFLO™ Pumping Systems
- ARDEX Concrete Management Systems™ (ACMS)

US Patent 8,857,130 B1

HENRY® Adhesives
The ARDEX Technical Service Department provides jobsite support, technical recommendations, start-up assistance and a 24-hour jobsite response time*

At ARDEX Academy, more than 7,000 professionals train annually at eight ARDEX Academy locations in North America, earning product knowledge, hands-on product experience and the latest installation techniques.

The National Programs Team is a single source point of contact for written specifications, document assistance, product selection and technical support in the retail, healthcare, education and government and military segments.

*In limited cases, geographical restrictions may require an extra day.
**ARDEX ERM™**
Exterior Ramp Mortar

This polymer-modified concrete repair mortar has corrosion inhibitor built-in to protect reinforcing steel. Easily holds shape for ramping and balconies.

Trowel grade
Horizontal applications

- Neat: 1/4" to 2" (6 mm to 5 cm)
- Aggregate: up to 8" (20 cm)
- Pot life: 25 to 45 minutes
- Coat or seal: 3 to 7 days

Compressive strength (ASTM C109): 8200 psi (574 kg/cm²) at 28 days
Modulus of Elasticity (ASTM 469): 3.67 x 10⁶ psi (2.6 x 10⁵ kg/cm²) at 28 days

**ARDEX TRM™**
Transportation Repair Mortar

This concrete repair mortar is microsilica-modified for improved durability and is fast-setting. Suitable for overlays and full-depth repairs.

Formable, pourable, pumpable
Horizontal, vertical and overhead applications

- Neat: 1/2" to 4" (12 mm to 10 cm)
- Aggregate: up to 8" (20 cm)
- Pot life: 10 to 20 minutes
- Foot traffic: 2 hours
- Vehicular traffic: 6 hours
- Coat or seal: 6 hours

Compressive Strength (ASTM C109): 11,500 psi (805 kg/cm²) at 28 days
Modulus of Elasticity (ASTM 469): 3.8 x 10⁶ psi (2.7 x 10⁵ kg/cm²) at 28 days
Concrete Repair Mortars

Portland cement-based concrete repair mortars for interior or exterior concrete repair on all grade levels. These single-component products mix with water, are easy to apply and bond readily with concrete. The result is a repair that resists shrinkage and delamination and is freeze-thaw resistant. Ideal solutions for normal commercial, institutional or multi-unit residential applications.

ARDEX FPTM
Form & Pour
This concrete repair mortar is formable, pourable and pumpable. Typical applications include balconies, plaza decks, columns, walls and parking decks. Horizontal, vertical and overhead applications.

• Neat: 1/2” to 4” neat (12 mm to 10 cm)
• Aggregate: up to 8” (20 cm)
• Pot life: 20 to 40 minutes
• Coat or seal: 72 hours

Compressive Strength (ASTM C109): 5500 psi (385 kg/cm²) at 28 days
Modulus of Elasticity (ASTM 469): 3.7 x 10⁶ psi (2.6 x 10⁵ kg/cm²) at 28 days

ARDEX FDMTM
Full Depth Repair Mortar
This concrete repair mortar has corrosion inhibitor built-in to protect reinforcing steel. Suitable for overlays and full-depth repairs

Formable, pourable, pumpable
Horizontal, vertical and overhead applications

• Neat: 1/2” to 4” neat (12 mm to 10 cm)
• Aggregate: up to 8” (20 cm)
• Pot life: 20 to 40 minutes
• Coat or seal: 72 hours

Compressive Strength (ASTM C109): 7000 psi (490 kg/cm²) at 28 days
Modulus of Elasticity (ASTM 469): 3.7 x 10⁶ psi (2.6 x 10⁵ kg/cm²) at 28 days

ARDEX FDXTM
Full Depth Extended Repair Mortar
This concrete repair mortar contains pre-blended aggregate for precise jobsite control, as well as corrosion inhibitor to protect reinforced steel.

Formable, pourable, pumpable
Horizontal, vertical and overhead applications

• Installation: 1 1/2” to 8” (3.8 to 20 cm)
• Pot life: 20 to 40 minutes
• Coat or seal: 72 hours

Compressive Strength (ASTM C109): 6000 psi (420 kg/cm²) at 28 days
Modulus of Elasticity (ASTM 469): 3.9 x 10⁶ psi (2.7 x 10⁵ kg/cm²) at 28 days
**ARDEX OVP**
Overhead & Vertical Patch
For use on pre-cast concrete, poured-in-place concrete panels, tilt-up walls, or any other vertical or overhead concrete or masonry surfaces.

- Extended pot life for large area applications
- Sandable
- • Pot life: 90 minutes
- • Working time: 30 minutes
- • Seal or paint: 2 to 3 hours

**ARDEX TWP**
Tilt Wall Patch
Perfect for tilt-up walls, pre-cast or poured-in-place concrete panels and other concrete or masonry surfaces.

- Quick drying for fast-track repairs
- • Pot life: 15 to 20 minutes
- • Seal or paint: 15 to 60 minutes

**ARDEX B 20**
Overhead & Vertical Repair Mortar
This polymer modified structural repair mortar has a corrosion inhibitor built-in to protect reinforcing steel. Glass microspheres add body and reduce weight allowing it to hang up to 2” (5 cm) thick without sag for vertical and overhead applications.

- Trowel grade
- Polymer modified
- • Single lift: 1/4” to 2” (6 mm to 5 cm)
- • Multiple lifts up to 8” (20 cm)
- • Apply coatings as little as 72 hours after application
- • Pot life: 15 to 20 minutes
- • Coat or seal: 3 to 7 days

Compressive Strength (ASTM C109): 6300 psi (441 kg/cm²) at 28 days
Modulus of Elasticity (ASTM 469): 2.26 x 10⁶ psi (1.6 x 10⁶ kg/cm²) at 28 days

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**Vertical & Overhead**
Portland cement-based, trowelable patching compounds for interior and exterior concrete surface defects such as spalls, gouges, cracks, dents, chips, bug holes and honeycombs before coating or painting. Mix with water only. Easy to apply.
ENGINEERED Toppings

Portland cement-based toppings for resurfacing and smoothing exterior and interior applications. Suitable for commercial, light industrial and residential use; foot and rubber tire traffic. Freeze/thaw resistant. ARDEX Engineered Toppings can be walked on in as little as 2 hours.

Self-Leveling

Use for interior or exterior, underlayment or topping applications.

ARDEX K 301™
Exterior Self-Leveling Concrete Topping

Install over concrete, porous tile and certain non-porous surfaces when properly prepared on, above or below grade

Use under ARDEX MC™ Moisture Control Systems
- Neat: 1/4” to 3/4” (6 mm to 2 cm)
- Aggregate: up to 2” (5 cm)
- Walk on in 2 to 3 hours
- Waterborne coatings: in as little as 24 hours

Compressive Strength (ASTM C109/mod – Air cure only): 4300 psi (301 kg/cm²) at 28 days

Troweled

Install over the surface of existing concrete to produce a new wear layer, as well as to fill in small surface defects such as spalls, gouges, and cracks. Modified with high-performance polymers. Broom texture for a reduced-slip surface.

ARDEX CD™
Concrete Dressing

Large grain sand for creating textured and non-slip surfaces.
- Install: 1/16” up to 1/8” (1.5 to 3 mm)
- Up to 1/2” (12 mm) in small, well-defined areas
- Walk on: 2 hours
- Waterborne coatings: 2 hours

Compressive strength (ASTM C109/mod - Air cure only)
4000 psi (280 kg/cm²) at 28 days

ARDEX CD FINE™
Concrete Dressing

Finer grain sand for a less textured finish. Available in gray or white
- Install: 1/32” to 1/8” (0.75 to 3 mm)
- Up to 1/2” (12 mm) in small, well-defined areas
- Walk on: 2 hours
- Waterborne coatings: 2 hours

Compressive strength (ASTM C109/mod - Air cure only)
4000 psi (280 kg/cm²) at 28 days

ARDEX CP™
Concrete Patch

Fill spalls, gouges, dormant cracks, “birdbaths” and other low areas in existing concrete surfaces. ARDEX CP can also be used to re-form concrete steps and curbs, and to create ramps over existing concrete, as well as to resurface vertical concrete substrates.
- Neat: 1/4” to 1/2” (6 to 12 mm)
- Aggregate: Up to 2” (5 cm)
- Walk on: 2 hours

Compressive Strength (ASTM C109/mod-Air cure only)
3600 psi (252 kg/cm²) at 28 days
**ARDEX BACA™**
Bonding & Anti-Corrosion Agent

Two-component anti-corrosion agent for reinforcing steel; also use as a bonding agent for fresh concrete, or mortar to existing concrete surfaces on all grade levels. ARDEX BACA is non-flammable, cleans up with water only and allows existing concrete to breathe.

Horizontal or vertical repairs
Can be sprayed

- Pot life: 90 minutes
- Open time: 24 hours
- Low VOC

Bond Strength (ASTM C882) - 1800 psi (126 kg/cm²) at 2 hours, 2100 psi (147 kg/cm²) at 4 hours  
Tensile Strength (ASTM C190) - 800 psi (56 kg/cm²) at 28 days

**ARDEX EP 2000™**
Substrate Preparation Epoxy Primer

Two-component epoxy to prime concrete and non-porous substrates prior to installing certain ARDEX Engineered Concrete Repair products.

- Can be used as crack filling material
- Solvent-free, low viscosity
- 100% solids epoxy resin
- Receives sand broadcast
- Use for interior and exterior substrates

**ARDEX P 71™**
Primer

Improves the application of most ARDEX Engineered Concrete Repair products that require a saturated-surface-dry (SSD) installation over absorbent concrete substrates.

- Ready to use – no need to mix or dilute
- Minimizes the formation of pinholes

ASU Gammage Memorial Stadium  
Gaje Contracting  
Chandler, AZ

**ARDEX B 20™** was applied in 2012  
Same installation in 2014
SEALERS & CRACK REPAIR

Easy to apply, fast-drying products for interior and exterior on residential, commercial and light industrial applications. Non-flammable.

ARDEX CG Concrete Guard™
Protect porous concrete and masonry surfaces including most vertical concrete surfaces. High-performance, concrete sealer.

- Abrasion resistant
- UV stable
- USDA/FDA compliant, exceeds ADA requirements

- Dry to touch: 1 hour
- Colors: Clear and gray
- Receive normal traffic: 24 hours

ARDEX ARDIFIX™
Two-part polyurethane repair compound for non-moving cracks, control joints, spalls and pop-outs. Ideal for sealing cracks and saw-cuts prior to installing ARDEX Underlayments and Toppings.

- 100% solids
- Low viscosity allows for deep penetration
- Zero VOC

- Sets in as little as 2 minutes
- In service: 10 to 15 minutes
- Grind smooth: 45 minutes

Waterproofing

Easy to apply, fast-drying, interior and exterior application for residential, commercial and light industrial installations. Non-flammable.

ARDEX ARDICOAT™ PLUS
Two component cement-based acrylic waterproofing compound

Portland cement-based, acrylic-modified, fiber-reinforced and breathable, waterproofing membrane for all types of concrete and masonry on horizontal or vertical surfaces on all grade levels.

- Trowel or spray

- Reduces chloride penetration by 90%
- Available in Gray and White
- Highly flexible to bridge hairline cracks
- Low VOCs – solvent-free

- Tensile Strength (ASTM D412) · (with mesh) 3800 psi (266 kg/cm²)
Installation Tools

ARDEX Self-Leveling Tool Kit
- ARDEX T-1 Mixing Paddle
- ARDEX T-4 Spreader
- ARDEX T-5 Smoother
- ARDEX T-10 Black Mixing Barrel
- ARDEX Measuring Buckets

ARDEX T-2 Mixing Paddle
For ARDEX Troweled Underlayments and Toppings

ROVER® Rolling Barrel Cart
Up to 3 bags in a single mix

Barrel sold separately
Brock University
St. Catherines, Ontario

ARDEX Engineered Concrete Repair Systems take on the toughest challenges with speed as well as superior performance.

The Brock University pool overflow tank had exposed, rusty rebar and spalled and gouged concrete.

In addition to repairs, waterproofing was required prior to the opening of the new term.

The ARDEX Americas Technical Service department provided a jobsite report.

First, proper bush hammering and jack hammering was performed on the damaged areas to create sound clean bases. Exposed, rusty rebar was sandblasted to sound stable steel. ARDEX BACA™ and ARDEX B 20™ were applied and immediately followed by form work and installation of ARDEX TRM™.

ARDEX TRM’s high-strength and quick-drying structural repair characteristics allowed quick removal of form work because of the six-hour cure time.

Patching of smaller pop outs was done with ARDEX OVP™ for overhead and vertical concrete walls. Finally, an application of ARDEX ARDICOAT™ PLUS will protect the entire structure moving forward.
ARDEX EXTERIOR & INTERIOR
CONCRETE RESURFACING

Produce a new wear layer while filling in small surface defects such as spalls and gouges in worn concrete.

Before

After