engineered concrete repair systems



- Structural & Non-Structural Repair
- Exterior Wear Surface Repair & Restoration
- Horizontal, Vertical & Overhead Repairs
- Crack Repair & Joint Sealants
- Substrate Preparation Materials



YOUR BEST CHOICE FOR INSTALLATION SUCCESS www.ardexamericas.com

ARDEX ENGINEERED CONCRETE REPAIR SYSTEMS



ARDEX ERM[™] Exterior Ramp Mortar

ARDEX ERM[™] is a trowel-grade, polymer-modified, Portland cement-based structural repair mortar for horizontal applications. It is used at depths ranging from **1/4" to 2" neat, and up to 8" when extended with aggregate** for deeper and full depth repairs of deteriorated exterior and interior concrete on all grade levels. ARDEX ERM has a corrosion inhibitor built-in to protect reinforcing steel, is easy to apply and bonds readily to concrete. Typical applications include sidewalks, plazas, walkways, driveways, parking garages and balconies.

- One component, mixes with water
- Low shrinkage, provides stable bond line
- Easily holds shape for ramping and balconies
- Suitable for normal service commercial, institutional and multi-unit residential applications
- Use for exterior and interior concrete repair, freeze/thaw resistant
- Compressive strength (ASTM C109) 8200 psi at 28 days
- Modulus of Elasticity (ASTM C469) 3.67 x 10⁶ at 28 days

Available in 55 lb. bags

ARDEX TRM™ Transportation Repair Mortar

ARDEX TRM[™] is a formable, pourable, pumpable, Portland cement-based, microsilica-modified, structural repair mortar for horizontal, vertical and overhead deteriorated exterior and interior concrete on all grade levels. It is used at depths ranging from **1/2**" to **4**" **neat**, **and up to 8**" **when extended with aggregate** for deeper and full depth repairs. ARDEX TRM is fast-setting, allowing foot traffic in just 2 hours and vehicular traffic in as little as 6 hours. It is also easy to apply and bonds readily to concrete. Typical applications include plazas, parking garages and balconies.

- One component, mixes with water
- Accepts foot traffic in 2 hours, vehicular traffic in 6 hours
- Microsilica for abrasion resistance
- Low shrinkage, provides a stable bond line
- Suitable for normal service, commercial, institutional and multi-unit residential applications
- Use for exterior and interior concrete repair, freeze/thaw resistant
- Easy to apply formable, pourable and pumpable
- Suitable for airport runway and apron repair
- Compressive Strength (ASTM C109) (neat) 8000 psi at 28 days
- Compressive Strength (ASTM C39) (extended) 6000 psi at 28 days
- Splitting Tensile Strength (ASTM C496) (neat) 625 psi at 28 days (extended) 600 psi at 28 days
- Modulus of Elasticity (ASTM C469) (neat) 3.8 x 10⁶ at 28 days, (extended) 4.47 x 10⁶ at 28 days

Available in 50 lb. bags

ARDEX FDM[™] Full Depth Repair Mortar

ARDEX FDM[™] is a formable, pourable, pumpable, Portland cement-based structural repair mortar for horizontal, vertical and overhead exterior and interior concrete above, on or below grade. It is used at depths ranging from **1/2**" to **4**" neat, and up to **8**" when extended with aggregate for deeper and full depth repairs. ARDEX FDM has a corrosion inhibitor built-in to protect reinforcing steel, is easy to apply, and bonds readily to concrete. The resulting patch has low shrinkage and resists delamination. Typical applications include balconies, plaza decks, columns, walls and parking decks.

- One component, mixes with water
- · Contains corrosion inhibitor to protect reinforced steel
- Apply coatings in as little as 72 hours after application
- Suitable for commercial, institutional and multi-unit residential applications
- Use for exterior and interior concrete repair, freeze/thaw resistant
- Easy to apply formable, pourable and pumpable
- Compressive Strength (ASTM C109) (neat) 7000 psi at 28 days
- Compressive Strength (ASTM C39) (extended) 6000 psi at 28 days
- Splitting Tensile Strength (ASTM C496) (extended) 600 psi at 28 days
- Modulus of Elasticity (ASTM C469) (neat) 3.7 x 10⁶ at 28 days, (extended) 3.9 x 10⁶ at 28 days

Available in 50 lb. bags

ARDEX FDX[™] Full Depth Extended Repair Mortar

ARDEX FDX[™] is a formable, pourable, pumpable, Portland cement-based structural repair mortar for horizontal, vertical and overhead exterior and interior concrete above, on or below grade. ARDEX FDX contains preblended aggregate for precise jobsite control. It is used at depths ranging from **1 1/2" to 8"**, has a corrosion inhibitor built-in to protect reinforcing steel, is easy to apply, and bonds readily to concrete. The resulting patch has low shrinkage and resists delamination. Typical applications include balconies, plaza decks, columns, walls and parking decks.

- · One component with pre-blended aggregate mixes with water
- Contains corrosion inhibitor to protect reinforced steel
- Suitable for normal commercial, institutional and multi-unit residential applications
- Use for exterior and interior concrete repair, freeze/thaw resistant
- Easy to apply formable, pourable and pumpable
- Apply coatings in as little as 72 hours after application
- Compressive Strength (ASTM C39) (extended) 6000 psi at 28 days
- Splitting Tensile Strength (ASTM C496) (extended) 600 psi at 28 days
- Modulus of Elasticity (ASTM C469) (extended) 3.9 x 10⁶ at 28 days

Available in 80 lb. bags

ARDEX FP[™] Form & Pour

ARDEX FPTM is a formable, pourable, pumpable, Portland cement-based structural repair mortar for horizontal, vertical and overhead exterior and interior concrete on all grade levels. It is used at depths ranging from **1/2**" to **4**" neat, and up to **8**" when extended with aggregate for deeper and full depth repairs. Typical applications include balconies, plaza decks, columns, walls and parking decks.

- One component, mixes with water
- Suitable for normal commercial, institutional and multi-unit residential applications
- Use for exterior and interior concrete repair, freeze/thaw resistant
- Easy to apply formable, pourable and pumpable
- Apply coatings in as little as 72 hours after application
- Compressive Strength (ASTM C109) 5500 psi at 28 days
- Modulus of Elasticity (ASTM C469) 3.6 x 10⁶ at 28 days

Available in 50 lb. bags

HORIZONTAL • VERTICAL • OVERHEAD • FORM & POUR TOPPINGS • BONDING • ANTI-CORROSION • WATERPROOFING

engineered concrete repair systems	Structural Repair	Single component	Polymer modified	Corrosion Inhibitor	Microsilica	Horizontal	Vertical	Overhead	Form & Pour	Trowel	Aggregate extended	Fast Set	Thickness
Horizontal & Formable Applications													
ARDEX FDM [™] Full Depth Repair Mortar Concrete Repair Mortar with Corrosion Inhibitor	•	•		•		0	0	0	•				1/2" to 4" neat; up to 8" when extended with aggregate
ARDEX FDX [™] Full Depth Extended Repair Mortar Concrete Repair Mortar with Corrosion Inhibitor	•	•		•		0	•	0	•		0		1 1/2" to 8"
ARDEX TRM™ Transportation Repair Mortar Fast-Setting Concrete Repair Mortar	•	•			0	0	0	0	•			0	1/2" to 4" neat; up to 8" when extended with aggregate
ARDEX ERM™ Exterior Ramp Mortar Trowel Grade Horizontal Concrete Repair Mortar	•	•	•	•		0				0			1/4" to 2" neat; up to 8" when extended with aggregate
ARDEX FP™ Form & Pour Concrete Repair Mortar	•	•				0	•	0	•				1/2" to 4" neat; up to 8" when extended with aggregate
ARDEX CP™ Concrete Patch Fast-Setting Horizontal Concrete Patch		•	•			0				0		0	1/4" to $1/2$ " neat; up to 1" when extended with aggregate
ARDEX CD [™] Concrete Dressing Resurfacing concrete to provide "new concrete" finish		•	•			0	0			0			As thin as 1/16"
ARDEX CD FINE [™] Concrete Dressing Resurfacing concrete to provide "new concrete" finish		•	•			0	•			0			As thin as 1/32"
ARDEX K 301™ Exterior Self-Leveling Concrete Topping		•	•			0						0	1/4" to $3/4$ " neat; up to 2" when extended with aggregate
Waterproofing, Sealers & Joint Sea	alant	ts											
ARDEX ArdiCoat [™] PLUS Two-Component Cement-Based Acrylic Waterproofing Compound			•			•	•			•			1/16"
ARDEX CG [™] Concrete Guard [™] High-performance, high solids, water-borne acrylic concrete sealer		•				•	•	•					N/A
ARDEX ArdiSeal [™] RAPID PLUS Fast-Setting Flexible Joint Sealant						0						0	N/A
ARDEX ArdiFix™ Low Viscosity Rigid Polyurethane Crack & Joint Repair						0						0	N/A
ARDEX ArdiBond AP™ Fast-setting All-Purpose Repair Epoxy						0						0	N/A



ARDEX CD[™] - Black Integral Color San Francisco International Airport



ARDEX K 301[™] - Fishing Boat Pier Ventura, CA



ARDEX OVP™ Overhead & Vertical Patch

ARDEX OVP™ is a trowelable Portland cement-based patching compound used to fill and smooth interior and exterior overhead and vertical concrete surface defects such as spalls, gouges, cracks, dents, chips, bug holes, honeycombs – any type, size or shape of surface defect that needs to be filled and smoothed before coating. For use on pre-cast concrete, pouredin-place concrete panels, tilt-up walls, or any other vertical or overhead concrete or masonry surfaces prior to sealing or painting.

- Use for filling and smoothing interior and exterior overhead and vertical concrete or masonry surfaces prior to sealing or painting
- Deep fill and skimcoat, high yield, easy to mix and apply
- Long pot life for large jobs, non-shrinking, sandable

Available in 20 lb. bags

ARDEX TWP™ Tilt Wall Patch

ARDEX TWP[™] is a trowelable Portland cement-based patching compound used to fill and smooth interior and exterior vertical concrete surfaces, such as tilt-up walls, pre-cast or poured-in-place concrete panels, and other concrete or masonry surfaces, prior to sealing or painting. Fill in surface defects such as spalls, gouges, cracks, dents, chips, bug holes, honeycombs – any type, size or shape of surface defect that needs to be filled and smoothed before coating.

- Use for filling and smoothing vertical concrete surfaces prior to sealing or painting
- Easy to mix and apply, hardens quickly without shrinking
- Use for interior and exterior overhead and vertical concrete or masonry surfaces

Available in 10 lb. bags



ARDEX B 20[™] Overhead & Vertical Repair Mortar

ARDEX B 20[™] is a trowel-grade, Portland cement-based, polymer modified, structural repair mortar for vertical and overhead concrete. It is used at depths ranging from **1/4**" to 2" in a single lift, and can be installed in multiple lifts up to 8" for deeper repairs of deteriorated exterior or interior concrete. ARDEX B 20 has a corrosion inhibitor built-in to protect reinforcing steel, is easy to apply and bonds readily to concrete.

- One component product with built in corrosion inhibitor
- Hangs up to 2" thick without sag for vertical and overhead applications
- Polymer modified provides low shrinkage and stable bond line
- Suitable for overhead and vertical repairs on commercial, institutional and multi-unit residential applications
- Use for exterior or interior concrete overlays
- Glass microspheres add body, reduce weight
- Freeze/thaw resistant
- Apply coatings as little as 72 hours after application
- Compressive Strength (ASTM C109) 6300 psi at 28 days
- Splitting Tensile Strength (ASTM C496) 565 psi at 28 days
- Modulus of Elasticity (ASTM C469) 2.26 x 10⁶ psi at 28 days

Available in 55 lb. bags

engineered concrete repair systems	Structural Repair	Single component	Polymer modified	Corrosion Inhibitor	Microsilica	Horizontal	Vertical	Overhead	Form & Pour	Trowel	Aggregate extended	Fast Set	Thickness
Vertical & Overhead Applications													
ARDEX OVP [™] Overhead & Vertical Patch Patching and Finishing Compound for Overhead and Vertical Concrete Walls		0	0				•	•		0			Skim coat to any thickness in well- defined areas
ARDEX TWP [™] Tilt Wall Patch Patching and Finishing Compound for Tilt Up and Vertical Concrete Walls		0	0				•	•		0		•	Skim coat to any thickness in well- defined areas
ARDEX B 20 [™] Overhead and Vertical Repair Mortar with Corrosion Inhibitor	0	•	•	0			•	•		0			1/4" to 2"
Substrate Preparation													
ARDEX Bonding & Anti-Corrosion Agent™				0		•	•	•					20 mils on concrete 20 mils on rebar (2 coats)
ARDEX EP 2000™ Substrate Preparation Epoxy Primer						0							N/A
ARDEX P 71™ Primer for Absorbent Concrete	0					0	•	•					N/A



ARDEX CD™ CONCRETE DRESSING (white) Manressa Hall



ARDEX B 20[™] Overhead & Vertical Repair Mortar Seaside Resort, Seaside, OR

14

ARDEX ENGINEERED CONCRETE REPAIR SYSTEMS



ARDEX K 301[™] Exterior Self-Leveling Concrete Topping

ARDEX K 301[™] is a self-leveling Portland cement-based topping and underlayment for fast-track resurfacing and smoothing for exterior and interior applications over concrete, porous tile and certain non-porous surfaces when properly prepared – on, above or below grade.

- Smooth new or existing concrete, porous tile and certain non-porous surfaces
- Install from 1/4" to 3/4" neat, and up to 2" with aggregate
- Walk on in 2 to 3 hours
- For commercial, light industrial and residential applications
- Use for exterior and interior applications, freeze/thaw resistant
- Compressive Strength (ASTM C109/mod Air cure only) - 4300 psi at 28 days
- Flexural Strength (ASTM C348) 1000 psi at 28 days

Available in 50 lb. bags

ARDEX CD™ Concrete Dressing

Portland cement-based and modified with high-performance polymers for high bond strength. Use ARDEX CD[™] 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. Use to restore existing concrete surfaces, including sidewalks, patios, plazas, courtyards, walkways, driveways, parking garages, pool decks and most vertical concrete surfaces. Once applied, ARDEX CD can be broom textured before it sets for a reduced-slip surface.

- · Suitable for commercial and residential applications
- Use for interior and exterior floors and walls, freeze/thaw resistant
- Resurface worn and spalled concrete surfaces to provide
- a "new concrete" finish
- Easy to apply and hardens quickly
- Compressive strength (ASTM C109/mod Air cure only) 4000 psi at 28 days

Available in 40 lb. bags

ARDEX CD™ FINE Concrete Dressing

Portland cement-based and modified with high-performance polymers for high bond strength. Use ARDEX CD FINE[™] 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. Use to restore existing concrete surfaces, including sidewalks, patios, plazas, courtyards, walkways, driveways, parking garages, pool decks and most vertical concrete surfaces. Once applied, ARDEX CD FINE can be broom textured before it sets, for a reduced-slip surface.

- Suitable for commercial and residential applications
- Use for interior and exterior floors and walls, freeze/thaw resistant
- Resurface worn and spalled concrete surfaces to provide a "new concrete" finish
- Easy to apply and hardens quickly
- Compressive strength (ASTM C109/mod Air cure only) 4000 psi at 28 days

Available in 20 lb. bags

ARDEX CD[™] - Office Complex Santa Monica, CA

ARDEX CP™ Concrete Patch

ARDEX CP[™] is a Portland cement-based, fast setting trowelable patch for repairing and filling surface defects in existing concrete. Use ARDEX CP to fill spalls, gouges, dormant cracks, "birdbaths" and other low areas in existing concrete surfaces, including sidewalks, patios, plazas, courtyards, walkways, driveways, parking garages, pool decks and most vertical 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.

- Repair, re-slope, and re-form all concrete surfaces
- Easy to apply and hardens quickly
- Suitable for foot and rubber tire traffic
- Suitable for commercial and residential applications
- Use for interior and exterior floors and walls, freeze-thaw resistant
- Compressive Strength (ASTM C109/mod-Air cure only) 3600 psi at 28 days

Available in 40 lb. bags



ARDEX CG[™] CONCRETE GUARD[™]

ARDEX CG[™] is a high-performance, high solids concrete sealer that is easy to apply, quick drying, non-flammable and UV stable. ARDEX CG is designed to protect all porous interior and exterior concrete and masonry surfaces on residential, commercial and light industrial applications, including sidewalks, patios, plazas, courtyards, walkways, driveways, parking garages, pool decks and most vertical concrete surfaces.

- Seals and protects all porous, uncoated cementitious surfaces
- Easy to apply and quick drying, non-flammable and UV stable
- USDA/FDA compliant, exceeds ADA requirements
- Durable and abrasion resistant, use on interior and exterior surfaces

Available in a 1 gal. can (clear or gray)

ARDEX ArdiSeal[™] RAPID PLUS

ARDEX ArdiSeal[™] RAPID PLUS is a two-part, self-leveling, semi-rigid polyurea joint filling compound. Designed specifically to accommodate heavy traffic, ARDEX ArdiSeal RAPID PLUS is 100% solids for no shrinkage in the joints, and cures to a semi-rigid hardness.

- Two-part polyurea semi-rigid joint sealant, 100% solids with no shrinkage
- Designed specifically for filling cracks, control joints (saw cuts) and expansion joints that will be directly exposed to traffic
- · For interior use where limited movement due to thermal cycling occurs
- Elongation (ASTM D412) 82%
- Tensile Strength (ASTM D412) Approximately 1200 psi

Available in 22 oz. dual cartridge system

ARDEX ArdiFix[™]

ARDEX ArdiFix[™] is a two-part polyurethane repair compound for non-moving cracks, control joints, spalls and pop-outs on interior or exterior applications. It is ideally suited to seal off cracks and saw-cuts prior to the installation of ARDEX Moisture Control Systems, Underlayments and Toppings. ARDEX ArdiFix is 100% solids for no shrinkage and cures to a rigid hardness.

- Two-part polyurethane, 100% solids, no VOC's, non-flammable
- Ideal for filling non-moving cracks and control joints (saw cuts) prior to the installation of ARDEX Moisture Control Systems, Underlayments and Toppings
- · Extremely low viscosity allows for deep penetration
- Elongation (ASTM D638) 6%
- Tensile Strength (ASTM D638) Approximately 4150 psi

Available in 22 oz. dual cartridge system

ARDEX ArdiBond AP™

ARDEX ArdiBond AP[™] is a two-component, rapid curing, high strength, non-sag epoxy repair material. ARDEX ArdiBond AP[™] works best on rough materials such as concrete, block, brick or stone, but may be used on many other materials with excellent results.

- Repair holes, spalls, voids and non-moving cracks in concrete, masonry, brick, stucco, block or wood
- · Non-sag formula for overhead and vertical applications
- 100% solids and low odor
- Use interior or exterior
- Easy to use Pre-proportioned single cartridge unit

Available in 8.6 oz. single cartridge



ARDEX EP 2000™ Substrate Preparation Epoxy Primer

ARDEX EP 2000[™] is a two-component epoxy preparation material formulated for use with ARDEX Toppings and Underlayments. It is especially suited to prime concrete and non-porous substrates prior to installing ARDEX Engineered Concrete Repair products.

- Two-component epoxy preparation material
- Primer for concrete and non-porous substrates such as terrazzo and epoxy coatings
- Can be used as crack filling material
- Solvent-free, low viscosity, 100% solids epoxy resin
- Receives sand broadcast, use for interior and exterior substrates

Available in 10 lb. container

ARDEX P 71[™] Primer

ARDEX P 71[™] is a non-film forming exterior primer used to improve the application of most ARDEX Engineered Concrete Repair products that require a saturated-surface-dry (SSD) installation method over absorbent concrete substrates. ARDEX P 71 is also the recommended primer for use with ARDEX K 301[™] Exterior Self-Leveling Topping. ARDEX P 71 is ready to use, simply broom or brush onto prepared substrate (SSD) and install over it immediately.

- For standard absorbent concrete substrates
- Ready to use no need to mix or dilute
- Minimizes the formation of pinholes

Available in 1 gal. container



ARDEX Bonding & Anti-Corrosion Agent™

ARDEX Bonding & Anti-Corrosion Agent[™] is a two-component, brush or spray applied coating used as an anti-corrosion agent for reinforcing steel, as well as a bonding agent for fresh concrete or mortar to existing concrete surfaces that have been prepared for repair. Use ARDEX Bonding & Anti-Corrosion Agent as a bonding slurry on properly prepared concrete patches or apply it directly to reinforcing steel in concrete to protect against corrosion and rust once embedded. Used in horizontal or vertical concrete repairs and shotcrete installations, ARDEX Bonding & Anti-Corrosion Agent is recommended for all types of applications.

- 90 minute pot life, 24 hour open time, cleans up with water only
- Allows concrete to breathe, and can be applied on all grade levels
- Two-component system for easy field batching
- Exceptional bond strength for concrete repairs
- Protects reinforcing steel against rust and corrosion
- Low VOC's, non-flammable
- Bond Strength (ASTM C882) 1800 psi at 2 hours, 2100 psi at 4 hours
- Tensile Strength (ASTM C190) 800 psi at 28 days

Available as kit: Part A: 1 gallon (3.78 L) liquid Part B: 28 lbs. (12.7 kg) powder



ARDEX ArdiCoat[™] PLUS

ARDEX ArdiCoat[™] PLUS is a two-component system consisting of a liquid acrylic emulsion and a blended cement powder that produces an easy-to-apply waterproof coating for all types of concrete and masonry on horizontal or vertical surfaces on all grade levels.

- Portland cement-based, acrylic-modified, fiber-reinforced breathable, waterproofing membrane
- Highly flexible to bridge hairline cracks
- Reduces chloride penetration by 90%
- Low VOC's solvent-free
- Trowel or spray apply on horizontal and vertical surfaces
- Suitable for institutional, commercial and residential applications
- Tensile Strength (ASTM D412) (without mesh) 0.470 psi, (with mesh) 3800 psi
- Available in Gray and White

Available as kit: Part A: 2.3 gallon (8.9 L) liquid Part B: 25 lbs. (11.3 kg) powdd

Part A: 2.3 gallon (8.9 L) liquid Part B: 25 lbs. (11.3 kg) powder

ARDEX BONDING & ANTI-CORROSION AGENT™ Balboa Resort – Newport Beach, CA



YOUR BEST CHOICE FOR **INSTALLATION SUCCESS** www.ardexamericas.com



engineered concrete repair systems



ARDEX Engineered Cements has been renowned for its industry-leading innovation over the past 30+ years in the United States and over 60 years globally. The ARDEX

Engineered Concrete Repair Systems are comprehensive offerings of high-performance structural repair products for vertical, horizontal or overhead surfaces, ARDEX concrete repair and renovation solutions provide significant time, cost and risk reductions for virtually any type of concrete repair project.

Whether repairing a concrete wall or resurfacing a plaza, ARDEX delivers the right products matched with in-depth experience for any type of facility including:

- Medical facilities
- Office buildings
- Retail complexes Educational facilities
- Sports arenas
- Industrial facilities
- Hospitality & Entertainment
- Airports

ARDEX Engineered Concrete Repair Systems are designed to repair & restore any type of concrete and masonry surface including:

Parking garages

Balconies

Driveways

- Plazas
- Pedestrian bridges Sidewalks
- Curbs
- Concourses
- Loading docks
- Walls
- Piers and docks Runways and aprons



ARDEX CD FINE[™] – Integral color



ARDEX delivers more than just best-in-class products. Our industry leading products are formulated to provide our customers with a distinct competitive advantage through real, tangible jobsite benefits and are backed by the highest quality support

which includes in-depth training, unmatched customer service, expert technical support and a comprehensive warranty program. With ARDEX, you can rest assured the job will get done right the first time...every time!

ARDEX is committed to providing environmentally friendly products that contribute to earning valuable LEED® points for qualified products.





400 Ardex Park Drive Aliquippa, PA 15001

Tel: 724-203-5000 Toll Free: 888-512-7339 Fax: 724-203-5001

www.ardexamericas.com

AB173 01/12