



ARDEX 8+9™

Rapid Waterproofing and Crack Isolation Compound

Rapid setting - tile in as little as 90 minutes

Flood test in 4 hours

Crack isolation up to 1/8" (3 mm)

Excellent coverage - Commercial units: 300 sq. ft.

Convenient Kit: 100 sq. ft.

Ideal for applications in commercial and residential bathrooms, showers and kitchens prior to the installation of tile or stone

Use for interior or exterior floors and walls

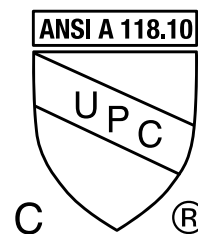
Easy to apply with a paint roller

A blend of Portland cement and other hydraulic cements, providing a better bonding surface for ARDEX tile and stone setting materials

Solvent free

Helps to prevent efflorescence from the substrate

Can be used in place of a shower pan



SystemOne™

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ARDEX 8+9™

Rapid Waterproofing and Crack Isolation Compound

Description

ARDEX 8+9™ Rapid Waterproofing and Crack Isolation Compound is a two-component system consisting of a solvent-free, acrylic-based liquid compound combined with a cement-based powder containing Portland cements and other hydraulic cements. When mixed and applied, these components produce a flexible, waterproof coating that protects substrates from positive side water infiltration and provides an excellent bonding layer for ARDEX tile and stone setting materials. When properly installed, ARDEX 8+9 also helps prevent the appearance of efflorescence from the substrate.

Use to waterproof all common building substrates that require protection from topside water exposure. Use over concrete and masonry finishes, existing tile, drywall, cementitious backer boards and plywood on all interior floors and walls prior to the installation of tile and stone.

Also use for exterior balconies and other concrete and masonry surfaces to prevent liquid water from penetrating from the topside through the tile application to the area below.

Substrate Preparation

All substrates must be structurally sound, solid, dry, thoroughly clean and free of oil, wax, grease, asphalt, latex and gypsum compounds, curing compounds*, sealers and any contaminant that might act as a bond breaker. Plywood substrates must be APA-rated, Type 1 exterior-grade plywood. Refer to ANSI A 108 AN-2 "General Requirements for Subsurfaces" and the Tile Council of North America's "Handbook for Ceramic Tile Installation" for detailed information on surface preparation and guidelines for substrate construction. The plane of wall surfaces must be plumb and true. Floor surfaces must have minimal variation in the plane or slope.

Should interior pre-leveling or subfloor repair be required, use ARDEX AM 100™ Rapid Set Pre-Tile Smoothing and Ramping Mortar or ARDEX EB 2™ Fast Setting Screed Cement for exterior or interior use, or use ARDEX Liquid BackerBoard® Self-Leveling Underlayment for Interior Wood and Concrete Subfloors, ARDEX TL 1000™ Tile Leveler, Self-Leveling Underlayment or ARDEX TL PATCH® Tile Leveler, Underlayment Patch and Skimcoat for interior use. For required cure times, see the technical brochure for the product(s) selected.

Expansion joints must be provided over existing moving joints, and where substrate materials change composition or direction, per ANSI A 108 AN-3.7.

*Note on Curing Compounds

Test areas of ARDEX 8+9 can be installed and evaluated over concrete slabs that have been treated with either silicate or acrylic resin curing compounds. These compounds must be installed in strict accordance with the compound manufacturer's written recommendations. If a silicate type has been used, all residual salts must be removed.

Please be advised, however, that there are a number of curing compounds sold today that are wax- or petroleum-based emulsions. These are permanent bond breakers that must be removed completely prior to patching or leveling. Dissipating compounds must also be removed completely by mechanical means prior to installing any ARDEX material.

It is imperative to be able to determine the type of curing compound that was used before proceeding. Any curing compound that cannot be identified should be completely, mechanically removed.

Recommended Tools

Mixing bucket*, ARDEX T-2 Ring Mixing Paddle, low speed drill, margin trowel, putty knife, paint roller and paintbrush.

*When mixing commercial-sized units of ARDEX 8+9, a minimum 6-gallon capacity is needed. ARDEX recommends the ARDEX M-6W Mixing Bucket for this purpose.

Mixing and Application

ARDEX 8+9 can be mixed to two different consistencies – caulking or paintable. Using the mix ratios below, pour the ARDEX 8 liquid into the mixing bucket first, and then add the ARDEX 9. No water or other additives are required. For best results, mix with an ARDEX T-2 Ring Mixing Paddle and a low speed drill. To mix by hand, 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.

Caulking Consistency

For one 9 lb. (4 kg) bag of ARDEX 9, use approximately 2/3 of the 1 gallon unit (approximately 2/3 gallon / 2.5 L) of ARDEX 8. For one 27 lb. (12 kg) bag of ARDEX 9, use approximately 2/3 of the 3 gallon unit (approximately 2 gallons / 7.56 L) of ARDEX 8.

Use this consistency to fill around floor or wall penetrations, for corner and floor/wall joints and dormant cracks up to 1/8" (3 mm) wide. Follow by



applying ARDEX SK™ Mesh Tape, glass tape or similar material over the crack using the paintable consistency of ARDEX 8+9, and then smooth over the area with a putty knife.

The unused portion of the trowel grade mixture can be blended back with the balance of the liquid ARDEX 8 and used in the paintable consistency.

Paintable Consistency

For one 9 lb. (4 kg) bag of ARDEX 9, use an entire 1 gallon (3.78 L) unit of ARDEX 8. For one 27 lb. (12 kg) bag of ARDEX 9, use the entire 3 gallon (11.34 L) unit of ARDEX 8. To mix small batches of the paintable consistency, mix one part of ARDEX 8 with one part of ARDEX 9 by volume.

Apply the first coat of the paintable mixture to the surface with a paint roller. Use a paintbrush to coat reinforced corners, edges and around drains. Coat the entire area and allow thorough drying (30 to 45 minutes). A second layer is required to obtain a waterproof and/or crack isolation membrane, and must be applied at a 90° angle to the first coat. Total thickness should be 1/32" (0.79 mm) minimum. Allow the final layer to dry thoroughly (approximately 1 hour at 70°F/21°C) prior to installing the tile using ARDEX setting materials.

Mesh Reinforcement for Drains and Changes of Plane

For drain tie-ins, corners, changes in plane and individual cracks or saw cuts use standard width 4 3/4" (120 mm) ARDEX SK, glass tape or similar material.

For corners, changes in plane and individual cracks or saw cuts, begin the installation by caulking the referenced items with ARDEX 8+9 mixed to a caulking consistency. Without allowing the ARDEX 8+9 to dry, lay the fabric into the fresh ARDEX 8+9 and key it in with the smooth side of a clean trowel or the elbow of a roller. Immediately proceed to install 2 coats of paintable consistency ARDEX 8+9 over the whole surface to be waterproofed.

For drain tie-ins, apply the paintable consistency mixture of ARDEX 8+9 around the edges of a drain using a paintbrush. Lay the ARDEX SK™ Drain Mesh or similar drain mesh in the fresh ARDEX 8+9 and key it in with the same paintbrush. Immediately proceed with two coats of paintable consistency ARDEX 8+9 over the drain mesh and the entire surface to receive waterproofing.

NOTE: When installing ARDEX 8+9 with mesh, special care should be taken to ensure no wrinkles are left in the installed mesh.

Tile Installation and Flood Testing

Tile can be installed over ARDEX 8+9 once the final coat has dried (approximately 1 hour, depending on ambient conditions). If flood testing is required, please note that the final coat of ARDEX 8+9 must first cure for a minimum of 4 hours.

Crack Isolation

ARDEX 8+9 can be used as a crack isolation membrane in accordance to ANSI A 118.12. ARDEX 8+9 will isolate minor, in plane substrate cracking up to 1/16" (1.5 mm) when used without mesh and up to 1/8" (3 mm) when used with mesh.

Crack Bridging

ARDEX 8+9 can be used to bridge existing dormant, non-structural cracks up to 1/8" (3 mm) wide with no vertical displacement. ARDEX SK, glass tape or similar material must be placed over the crack.

Notes

FOR PROFESSIONAL USE ONLY.

All tools should be cleaned with water immediately after use.

ARDEX 8+9 is not recommended for roofing applications or as exterior primary waterproofing over indoor spaces.

As always, 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 temperature.

For submerged applications, please contact the ARDEX Technical Service Department.

Do not reuse container. Dispose of container and residue in accordance with federal, state and local waste disposal regulations. Do not flush material down drains.

Precautions

Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Material Safety Data Sheet (MSDS) available at www.ardexamericas.com.

Technical Data According To ARDEX Quality Standards

All data based on a mixing ratio of 1 unit of ARDEX 8 to 1 unit of ARDEX 9 at 70°F (21°C). Physical properties are typical values and not specifications.

Mixing Ratio

Paintable Consistency: 1 gallon (3.78 L) of ARDEX 8 per 9 lb. (4 kg) of ARDEX 9
3 gallons (11.34 L) of ARDEX 8 per 27 lb. (12 kg) of ARDEX 9
For small batches, 1 part ARDEX 8 to 1 part ARDEX 9 by volume

Mixing Ratio

Caulking Consistency: 2/3 gallon (2.5 L) of ARDEX 8 per 9 lb. (4 kg) of ARDEX 9

Coverage:

2 gallons (7.56 L) of ARDEX 8 per 27 lb. (12 kg) of ARDEX 9
Convenient kit (1 gallon/3.78 L of ARDEX 8 and 9 lb. / 4 kg of ARDEX 9):
100 sq. ft. (2 coats) over drywall
Approx. 70 sq. ft. (2 coats) over concrete
Commercial units (3 gallons / 11.34 L of ARDEX 8 and 27 lb. / 12 kg of ARDEX 9):
300 sq. ft. (2 coats) over drywall
Approx. 210 sq. ft. (2 coats) over concrete

Pot Life:

Up to 45 minutes

Drying Time:

30 to 45 minutes for initial coat
Approx. 60 minutes for final coat

Flood Test:

Begin 4 hours after the second coat has been applied

VOC:

0

Storage:

Store in a cool, dry area.
Do not expose packages to sun.
Keep liquid from freezing.

Shelf Life:

1 year

Warranty:

ARDEX Engineered Cements Standard Limited Warranty applies. Also eligible for the ARDEX SystemOne™ Warranty when used in conjunction with select ARDEX mortars, provided ARDEX mortars and grouts are used.

ANSI Test Results - A118.10 (waterproofing) and A118.12 (crack isolation)

Property	Test Method	ANSI Specification	Test Results
Fungus Resistance	A118.10 Section 4.1	No Growth	Pass
Seam Strength	A118.10 Section 4.2	> 8 lbs/ inch width	48 lbs. / inch width
Breaking Strength	A118.10 Section 4.3	> 170 psi	865 psi
Dimensional Stability	A118.10 Section 4.4	+/- 0.7%	0.00%
Waterproofness	A118.10 Section 4.5	No Water Penetration	Pass
Shear Bond Strength to Cement Mortar			
Shear Strength After Water Immersion (7 day)	A118.10 Section 5.4	> 50 psi	90 psi
Four Week Shear Strength	A118.10 Section 5.5	> 50 psi	132 psi
System Crack Resistance			
Standard Performance (without mesh)	A118.12 Section 5.4	> 1/16" and < 1/8"	Pass
High Performance (with mesh)	A118.12 Section 5.4	> 1/8"	Pass
Point Load	A118.12 Section 5.2	> 1000 lbs	> 3,300 psi
Robinson Test	A118.12 Section 5.3	As Specified	Extra Heavy

Made in the USA by ARDEX Engineered Cements, Aliquippa, PA 15001

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Updated 01-30-2014. Supersedes all previous versions. Check www.ardexamericas.com for updates.

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For easy-to-use ARDEX Product Calculators and Product Information On the Go, download the ARDEX App at the iTunes Store or Google Play.



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