ARDEX ArdiFix™

Low Viscosity Rigid Polyurethane Crack and Joint Repair

Two-part polyurethane

Extremely low viscosity allows for deep penetration

Repairs very fine cracks

Mix with sand for larger cracks or repair of spalls and pop-outs

Use interior or exterior

Ideal for filling cracks and control joints (saw cuts) prior to the installation of ARDEX Moisture Control Systems, Underlayments and Toppings

Ultra fast setting - starts setting in as little as 2 minutes

Put into service in 10 to 15 minutes

Grind smooth in 45 minutes

100% solids, no VOC's, non-flammable

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ARDEX ArdiFix™

Low Viscosity Rigid Polyurethane Crack and Joint Repair

Description

ARDEX ArdiFix™ is a two-part polyurethane repair compound for cracks, control joints, spalls and pop-outs on interior or exterior applications. It is ideally suited to fill cracks and saw-cuts prior to the installation of ARDEX Moisture Control Systems, underlayments and toppings. ARDEX ArdiFix is ultra fast setting, allowing for the installation to proceed within minutes of application. ARDEX ArdiFix is 100% solids for no shrinkage and cures to a rigid hardness. It also has a wide service temperature range of -35° to 110°F (-37° to 43°C), making it suitable for applications from freezers to warehouses.

Substrate Preparation

All concrete must be structurally sound, solid, dry, and free of laitance, dirt, debris, coatings, sealers, and any contaminant that may act as a bond breaker. A dry diamond blade may be used to prepare cracks and create a clean surface for bonding. Do not use sweeping compounds, solvents or acid etching to prepare the surface. A wire brush or twisted wire wheel may be used to remove any loose concrete or dirt. Cracks or joints should be free of dust, dirt, oils and any other debris. New concrete should be fully cured and free of movement. ARDEX ArdiFix can be "feathered" into an existing concrete surface.

Recommended Tools

Commercial grade 22 oz. (650 mL) dual cartridge dispenser, recommended static mixing nozzle, razor scraper.

Application

PRECAUTION: This is a fast setting material.
The following procedures will minimize waste and achieve the desired results. Failure to follow these procedures can cause isolated soft spots and subsequent failure.
IMPORTANT: During set-up of cartridge (purging air and balancing) and initial dispensing of material, keep cartridge and nozzle assembly pointed straight up. AFTER purging/ balancing and initial shot of material, always keep the cartridge and nozzle pointed downward to prevent material in the nozzle from flowing back into the cartridge.

Prepare joints and cracks prior to starting a new cartridge. If at all possible, schedule dispensing to consume an entire cartridge with no interruption of material flow. Shake the cartridge vigorously for 10 seconds and then stand the cartridge upright for about a minute. Insert the cartridge into the dispenser, making sure it is properly positioned with the shoulder of the cartridge flush with the front bracket of the dispenser. Remove the plastic cap from the top of the cartridge. **IMPORTANT:** Before attaching the static mixing nozzle, dispense a small amount of material onto a disposable surface until both components flow evenly from the cartridge. After purging and balancing always point cartridge downward when not dispensing to prevent mixed material in the nozzle from flowing back into the cartridge. Place the nozzle onto the cartridge and secure it by tightening in a clock-wise direction. Make sure the nozzle and cartridge assembly is secure before proceeding.

ARDEX ArdiFix has a pot life of only 2 minutes. Apply continuously once opened to prevent the tip from becoming clogged. Place the mixing nozzle directly over the crack, joint or repair area. Dispense material using full smooth trigger pulls (no short choppy strokes) and allow material to gravity feed into the crack, joint or repair area.

For installations to receive an ARDEX Moisture Control System, Underlayment or Topping, immediately broadcast clean sand size #30 or #35 into the freshly applied material.

For installations where no further work will be done, over-fill the crack, joint or repair area so the material is slightly higher than the face of the concrete slab. Allow the ARDEX ArdiFix to set for approximately 10 to 15 minutes (at 75° F), and then use a sharp razor scraper to shave excess material from the top of the slab.

For filling spalls and pop-outs, mix ARDEX ArdiFix 1:1 with dry sand to a paste-like consistency, then fill and smooth with a trowel or putty knife. Repairs can be put into service in 10 to 15 minutes and ground smooth in as little as 45 minutes.

For clean up, use MEK or similar while the material is still fresh, carefully following all instructions and warnings on the solvent container. Once ARDEX ArdiFix cures, it can only be removed by grinding or similar.

Curing

ARDEX ArdiFix will be tack free in approximately 10 minutes, at which time it can be exposed to light traffic and non-harsh chemicals. ARDEX ArdiFix can be opened to full use after a minimum cure of 45 minutes at 70°F (21°C).

Notes

For interior or exterior use over dry substrates only. ARDEX ArdiFix should be applied at temperatures between 0°F to 85°F (-18°C to 32°C). Substrate temperatures must be a minimum of 5°F (2.8°C) above dew point. Warm or hot weather will shorten pot life and working time.

When mixing with sand, make sure the sand is completely dry to prevent the ARDEX ArdiFix from swelling due to contact with moisture.

Always install an adequate number of properly located test areas to evaluate the suitability of the product for the intended use.

Do not mix with additives. Do not thin.

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

FOR PROFESSIONAL USE ONLY.

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

Test data based on neat resin at 70° F (21°C) at a mixing ratio of 1:1 by volume.

Physical properties are typical values and not specifications.

Recommended Thickness:	No limits
Coverage:	Varies with depth of fill area
Pot Life:	Approx. 2 minutes
Percent Solids:	100% by weight
Tensile Strength (ASTM D638):	Approx. 4,150 psi (28.6 N/sq. mm)
Elongation (ASTM D638):	6%
Die C Tear (ASTM D624):	243 pli (425.5 N/cm)
Shore D Hardness:	70
Viscosity:	60 cps
Tack Free:	Approx. 10 minutes
Full Service:	45 minutes
VOC:	0 g/L, calculated, SCAQMD 1168
Storage:	Store in a dry area between 65 and 90°F (18 to 32°C). Do not leave containers exposed to sun. Keep from freezing. Keep away from heat.
Packaging:	21.2 oz. (627 mL) dual cartridge
Shelf Life:	1 year, if unopened
Warranty:	ARDEX Engineered Cements Standard Limited Warranty

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

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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 the Android Marketplace.

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