



ARDEX V 900

Self-Leveling Flooring Underlayment

Portland cement-based

Smooth new or existing concrete

Walk on in 3 hours

Install floor covering in 2-3 days

ARDEX ENGINEERED CEMENTS®
400 Ardex Park Drive
Aliquippa, PA 15001 USA
Tel: 724-203-5000
Fax: 724-203-5001
www.ardex.com

ARDEX V 900

Self-Leveling Flooring Underlayment

Description

ARDEX V 900 is a self-leveling, no troweling, Portland cement-based underlayment. Use to level and smooth interior concrete substrates – on, above, or below grade. Pourable or pumpable when mixed with water. Seeks its own level and produces a smooth, flat, hard surface. Hardens quickly and dries fast without shrinking, cracking, or spalling.

Subfloor Preparation

All concrete substrates must be solid, thoroughly clean and free of oil, wax, grease, asphalt, latex compounds, curing and sealing compounds, and any contaminant that might act as a bondbreaker. If necessary, mechanically clean the floor down to sound, solid concrete by shot blasting, scarifying or similar. Overwatered, frozen, or otherwise weak concrete surfaces must also be cleaned down to sound, solid concrete by mechanical methods. Acid etching, the use of adhesive removers or solvents, and sweeping compounds are not acceptable means of cleaning the substrate. The use of sanding equipment is not an effective method to remove curing and sealing compounds. Substrate temperatures must be a minimum of 50°F for the installation of ARDEX products. For further information, please refer to the ARDEX Substrate Preparation Brochure.

Recommended Tools

ARDEX T-1 Mixing Paddle, ARDEX T-10 Mixing Drum, ARDEX T-4 Spreader, ARDEX T-5 Smoother, ARDEX MB-5.0 Measuring Bucket (5.0 qts. for 50 lb. bag), and a ½" heavy-duty drill (min. 650 rpm).

Priming

Standard absorbent concrete must be primed with ARDEX P 51 PRIMER diluted 1:1 with water. Apply evenly with a soft pushbroom. Do not use paint rollers, mops or spray equipment. Do not leave any bare spots. Brush off puddles and excess primer. Allow to dry to a clear, thin film (min. 3 hours, max. 24 hours).

Extremely absorbent concrete may require two applications of ARDEX P 51 PRIMER to avoid the formation of bubbles and pinholes in the ARDEX V 900. In such cases, make an initial application of ARDEX P 51 PRIMER diluted with 3 parts by volume of water. Let dry thoroughly (1 to 3 hours) and install a second application of ARDEX P 51 PRIMER mixed 1:1 with water as stated above.

Mixing And Application – Manually

ARDEX V 900 is mixed in 2-bag batches at one time. Mix each 50 lb. bag with 5.0 quarts (4.75 liters) of water. Put the water in the mixing drum first, then add each bag of ARDEX V 900 while mixing with an ARDEX T-1 Paddle and a ½" heavy-duty drill (min. 650 rpm). Mix thoroughly for approximately 2 to 3 minutes to obtain a lump-free mix. Do not overwater! Yellowish foam while mixing, or settling of the sand aggregate while placing, indicates overwatering.

ARDEX V 900 has a flow time of 10 minutes at 70°F. Pour the liquid mix on the floor and spread with the ARDEX T-4 Spreader. Immediately smooth the material with the ARDEX T-5 Smoother. Wear baseball or soccer shoes with non-metallic cleats to avoid leaving marks in the liquid ARDEX V 900.

Mixing And Application – Pumping

ARDEX V 900 can be pumped using the ARDEX Levelcraft Automatic Mixing Pump. The Levelcraft Pump provides for high productivity and a smooth, consistent installation. The pump may be rented from an authorized ARDEX Distributor and is supported by the ARDEX Technical Service Department.

Start the pump at a water setting of 150 gallons per hour, and then adjust to the minimum water reading that allows self-leveling properties. Do not overwater! Check the consistency of the product on the floor to ensure a uniform distribution of the sand aggregate at both the top surface and bottom of the pour. Conditions during the installation such as variations in water, powder, substrate and ambient temperature, require that the water setting be adjusted during installation to avoid overwatering.

ARDEX V 900 has a flow time of 10 minutes at 70°F. Pump the liquid mix on the floor and spread with the ARDEX T-4 Spreader. Immediately smooth the material with the ARDEX T-5 Smoother. Wear baseball or soccer shoes with non-metallic cleats to avoid leaving marks in the liquid ARDEX V 900. Contact the ARDEX Technical Service Department for complete pump installation instructions.

Thickness Of Application

ARDEX V 900 must be installed at a minimum thickness of ⅛" over the highest point in the floor, which typically results in an average thickness of ¼" over the entire floor. ARDEX V 900 can be installed up to ½" over large areas in one pour and can be featheredged to match existing elevations. For areas where thicknesses greater than ½" are required, contact the ARDEX Technical Service Department.

Notes

This product is intended for interior use over dry substrates only. Do not use in areas of constant water exposure or in areas exposed to permanent or intermittent substrate moisture as this may jeopardize the performance of the underlayment and the floor covering. This product is not a vapor barrier and will allow free passage of moisture. **Follow the directives of the floor covering manufacturer regarding the maximum allowable substrate moisture content and test the substrate prior to installing ARDEX V 900.**

Where substrate moisture exceeds the maximum allowed, Ardex recommends the use of the ARDEX MC MOISTURE CONTROL SYSTEM. For further information, please refer to the Ardex Technical Brochures.

Always install an adequate number of properly located test areas, to include the finish flooring, to determine the suitability of the product for its intended use. As floor coverings vary, always contact and rely upon the floor covering manufacturer for specific directives such as maximum allowable moisture content, adhesive selection and intended end use of the product.

Low substrate temperatures and/or high ambient humidity require longer drying times for ARDEX primers. Do not install ARDEX V 900 before primer has dried thoroughly.

Precautions

ARDEX V 900 contains Portland cement and sand aggregate. Avoid eye and skin contact. Mix in a well ventilated area and avoid breathing powder or dust. KEEP OUT OF REACH OF CHILDREN. Carefully read and follow all cautions and warnings on product label.

Physiologically and ecologically friendly when set. Never mix with cement or additives other than Ardex approved products. Observe the basic rules of concrete work. Do not install below 50°F surface temperature. Install quickly if substrate is warm and follow hot weather instructions available from the ARDEX Technical Service Department.

Technical Data According To Ardex Quality Standards

(All data based on a mixing ratio of 4 parts powder to 1 part by volume of water at 70°F)

Mixing Ratio:	5 quarts of water per one 50 lb. bag
Coverage:	50 sq. ft. per bag at 1/8"; 25 sq. ft. per bag at 1/4";
Flow Time:	10 minutes at 70°F
Initial Set (ASTM C191):	Approx. 30 minutes at 70°F
Final Set (ASTM C191):	Approx. 60 minutes at 70°F
Compressive Strength (ASTM C109/mod – Air cure only):	3500 psi at 28 days
Flexural Strength (ASTM C348):	1000 psi at 28 days
Flammability (ASTM E84):	Flame Spread -0- Fuel Contribution -0- Smoke Development -0-
Walkable:	3 hours at 70°F
Install Floor Covering:	2-3 days at 70°F
Packaging:	50 lb./22.7 kg net weight in paper bags
Storage:	Store in a cool dry area. Do not expose bags to sun.
Shelf Life:	One year
Warranty:	Ardex Engineered Cements Standard Limited Warranty applies.

Limited Warranty

Ardex, L.P. warrants that if this product proves to have manufacturing defects and ARDEX is notified of such within six months from the date ARDEX shipped the product, ARDEX will replace the defective product f.o.b. factory. Such product replacement shall constitute the sole and exclusive remedy for any claim under this warranty. ARDEX does not authorize anyone, including ARDEX Representatives, to make any statements which supersede, modify or supplement the information provided on its printed literature or package labels without written confirmation from the Ardex Technical Service Department. Any installations proceeding without this confirmation, or misinstallations of the product, will void this warranty. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, IMPLIED, OR STATUTORY, AND IS STRICTLY LIMITED TO ITS TERMS. ARDEX MAKES NO WARRANTY OF MERCHANTABILITY OR SUITABILITY OF ITS PRODUCTS FOR ANY PARTICULAR PURPOSE. All product demonstrations are placed for illustrative purposes only and do not constitute a warranty of any kind. ARDEX SELLS ITS PRODUCTS UPON THE CONDITION THAT CUSTOMERS SHALL CONDUCT THEIR OWN TESTS TO DETERMINE THE SUITABILITY OF THE PRODUCTS FOR THE CUSTOMERS' INTENDED PURPOSES. UNDER NO CIRCUMSTANCES WILL ARDEX BE LIABLE FOR ECONOMIC, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR LOSSES OF ANY KIND WHATSOEVER ARISING OUT OF OR OCCASIONED BY THE SELECTION, USE, INSTALLATION, OR REPLACEMENT OF THESE PRODUCTS.

© 2004 ARDEX, L.P.

AT124 (Rev. A 10/04)

ARDEX ENGINEERED CEMENTS®
400 Ardex Park Drive
Aliquippa, PA 15001 USA
Tel: 724-203-5000
Fax: 724-203-5001
www.ardex.com