

## **ARDEX GUIDE SPECIFICATION**

**ARDEX DS70™ Acoustic Mat, ARDEX 8+9™ Rapid Waterproofing and Crack Isolation Compound, and HENRY® 1171N SureLock™ Acrylic Urethane Wood Flooring Adhesive**  
Subfloor Preparation Materials for Sound Deadening Applications to Receive the Installation of Wood Flooring

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### **SECTION 09 64 00 ARDEX WOOD FLOORING INSTALLATION MATERIALS AND SYSTEMS**

#### **PART 1 - GENERAL**

##### **1.1 RELATED DOCUMENTS**

- A. Drawings, general provisions of the Contract, and other related construction documents such as Division 01 specifications apply to this Section

##### **1.2 SUMMARY**

- A. Subfloor Preparation Materials for Sound Deadening Applications to Receive the Installation of Wood Flooring
  - 1. ARDEX DS70™ Acoustic Mat
  - 2. ARDEX 8+9™ Rapid Waterproofing and Crack Isolation Compound
  - 3. HENRY® 1171N SureLock™ Acrylic Urethane Wood Flooring Adhesive
- B. Complete ARDEX and WW HENRY product and system installation details are provided in their corresponding Technical data sheets available at [www.ardexamericas.com](http://www.ardexamericas.com) and [www.wwhenry.com](http://www.wwhenry.com).
- C. Related Sections include the following:
  - 1. Divison 09 Wood Flooring Sections

##### **1.3 REFERENCES**

- A. American National Standards Institute
  - 1. ASTM C627 – Standard test method for evaluating ceramic floor tile installation systems using the Robinson-Type floor tester.
  - 2. ASTM E2179 - Standard test method for laboratory measurement of the effectiveness of floor coverings in reducing impact sound transmission through concrete floors

3. ASTM E492 - Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine
4. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
5. A-118.10 Load bearing, bonded waterproofing membranes for finish flooring.
6. A-118.12 Crack Isolation Membrane

#### 1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used. Include manufacturer's Safety Data Sheets.
- B. Qualification Data: For Installer

#### 1.5 QUALITY ASSURANCE

- A. Installation of the ARDEX product must be completed by a factory-trained applicator, such as an ARDEX LevelMaster<sup>®</sup> Elite or Choice Contractor, using mixing equipment and tools approved by the manufacturer. Please contact ARDEX Engineered Cements (724) 203-5000 for a list of recommended installers.
- B. Manufacturer Experience: Provide products of this section by companies which have successfully specialized in production of this type of work for not less than 5 years. Contact Manufacturer Representative prior to installation.

#### 1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver products in original packaging, labeled with product identification, manufacturer, batch number and shelf life.
- B. Protect from direct sunlight. Acclimate the installation area, setting material, sound deadening mat and finish flooring in an enclosed building at a minimum of 65°F (18° C) for at least 48 hours before, during and after the installation of products included in this section.
- C.
- D. Handle products in accordance with manufacturer's printed recommendations.

#### 1.7 PROJECT CONDITIONS

- A. Do not install material below 50° F (10° C) surface and air temperatures. These temperatures must also be maintained during and for 48 hours after the installation of products included in this section. Install quickly if substrate is warm and follow warm weather instructions available from the ARDEX Technical Service Department.

## **PART 2 – PRODUCTS**

### **2.1 ACOUSTIC MAT**

- B. A high-performance, flat, resilient, sound-control underlayment made from a formulation of high quality, post-consumer-recycled, wear- and water-resistant rubber granules.
  - 1. Acceptable Products:
    - a. ARDEX DS 70™; Manufactured by ARDEX Engineered Cements: 400 Ardex Park Drive, Aliquippa, Pa 15001 USA 724-203-5000
  - 2. Performance and Physical Properties: Meet or exceed the following values for material cured at 73° F (23° C) and 50 percent relative humidity.
  - 3. Refer to ARDEX DS 70™ technical data sheet for sound rating based on application.

### **2.2 WATERPROOFING & CRACK ISOLATION MEMBRANE**

- A. Acceptable Products:
  - 1. ARDEX 8+9™; manufactured by ARDEX Engineered Cements: 400 Ardex Park Drive, Aliquippa, PA 15001 USA, (724) 203-5000, [www.ardexamericas.com](http://www.ardexamericas.com)
- B. Performance and Physical Properties: Meet or exceed the following values for material cured at 70° F+/-3°F (21° C+/-3°C) and 50% +/-5% relative humidity:
  - 1. Pot Life: 45 Minutes
  - 2. Coats: 2
  - 3. Dry Time: 30 minutes – coat 1, 1hr - coat 2; Floor testing – 4 hours after the second coat has been applied
  - 4. Crack Isolation: Meets or Exceeds ANSI A 118.12

### **2.3 ADHESIVE**

- A. Acceptable Products:
  - 1. HENRY® 1171N SureLock™ Acrylic Urethane Wood Flooring Adhesive; Manufactured by W.W. Henry Company: 400 Ardex Park Drive, Aliquippa, PA 15001 USA, (724) 203-5000, [www.ardexamericas.com](http://www.ardexamericas.com)
  - 2. Performance and Physical Properties: Meet or exceed the following values for material cured at 70° F+/-3°F (21° C+/-3°C) and 50% +/-5% relative humidity.

## **PART 3 – EXECUTION**

### **3.1 PREPARATION**

- A. Subfloors: Prepare substrate in accordance with manufacturer's instructions.
  - 1. All subfloors must be clean and completely free of all contaminants, including dust, oil, grease, wax, sealers, paint, varnish, etc. Prepare floor as required by mechanical means. Do not use chemicals to clean the floor.
- B. Crack and Joint Preparation:
  - 1. Moving Joints and Moving Cracks – All expansion joints, isolation joints and construction joints, as well as all moving cracks, must be honored up through the sound deadening mat and finish flooring. Expansion joints must be provided over existing moving joints and cracks, and where substrate materials change composition or direction per ANSI A108 AN-3.7. A flexible sealing compound such as ARDEX ARDISEAL™ Rapid Plus may be installed.
  - 2. Saw Cuts, Control Joints and Dormant Cracks – fill all dormant joints and dormant cracks with ARDEX ARDIFIX™ Joint Filler, as recommended by the manufacturer.

### 3.2 APPLICATION OF CRACK ISOLATION MEMBRANE

- A. Examine substrates and conditions under which materials will be installed. Do not proceed with installation until unsatisfactory conditions are corrected.
- B. Coordinate installation with adjacent work to ensure proper sequence of construction. Protect adjacent areas from contact due to mixing and handling of materials.
- C. Install Waterproofing and Crack Isolation Membrane
  - 1. Reference A-108.17 Installation of Crack Isolation Membrane
  - 2. Comply with manufacturer's printed instructions for mixing of material, installation, and cure. For questions contact the ARDEX Technical Services Department at (724) 203-5000.
- D. Install Acoustic Mat
  - 1. Reference ASTM C627, E2179, E492, & E90.
  - 2. Comply with manufacturer's printed instructions for mixing of material, installation, and cure. For questions contact the ARDEX Technical Services Department at (724) 203-5000.
- E. Install Adhesive
  - 1. Comply with manufacturer's printed instructions for mixing of material, installation, and cure. For questions contact the ARDEX Technical Services Department at (724) 203-5000.

### 3.3 FIELD QUALITY CONTROL

- A. Where required, contact manufacturer for field sampling methods and procedures.

3.4 PROTECTION

- A. Prior to the installation of the finish flooring from abuse by other trades by the use of plywood, Masonite or other suitable protection course.

**END OF SECTION**