

## Section 09 60 00.11: Sound Isolation Membranes

### PART 1: GENERAL

#### 1.1 SECTION INCLUDES

- A. Noise-reducing recycled rubber impact insulation systems
- B. Adhesives

#### 1.2 RELATED SECTIONS

- A. Concrete Substrate
- B. Plywood Substrate
- C. Tile, Carpet, Wood
- D. Noise Control and Vibration Isolation

#### 1.3 REFERENCES

- A. U.S. Department of Housing and Urban Development (HUD): Guide to Airborne, Impact, and Structure Borne Noise Control in Multifamily Dwellings.
- B. American Society for Testing and Materials (ASTM)
  1. ASTM E492 Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine
  2. ASTM D5116 Standard Guide for small-scale environmental chamber determinations of Organic Emissions for Indoor Material/ Products
  3. ASTM C627 Standard Test Method of Evaluating Ceramic Tile Installation Systems using the Robinson Type Floor Test
  4. ASTM E1007 Standard Test Method for Field Measurement of Tapping Machine Impact Sound Transmission through Floor-Ceiling assemblies and Associated support structures
  5. ASTM E2179 Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission through Concrete Floors

- 6. ASTM E90 E2179 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission loss of Building Partitions and Elements

#### C. Leadership in Energy and Environmental Design – LEED®

1. LEED is an internationally recognized green building certification system, providing third-party verification that a building or community was designed and built using strategies aimed at improving performance across all the metrics that matter most: energy savings, water efficiency, CO2 emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts.

#### 1.4 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide recycled rubber resilient underlayment padding, which has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.

#### 1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  1. Preparation instructions and recommendations.
  2. Storage and handling requirements and recommendations.
  3. Installation methods.
- 4. LEED Documentation of how the requirement for credit will be met.

- C. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

- D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

#### 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: The manufacturer shall be a firm with a minimum of two years of successful experience in manufacture of products with similar requirements.
- B. Installer Qualifications: The installer shall be a firm with a minimum of two years of successful experience in installation of products with similar requirements.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  1. Finish areas designated by Architect.
  2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
  3. Refinish mock-up area as required to produce acceptable work.

#### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.



**1.8 PROJECT CONDITIONS**

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

**PART 2 PRODUCTS****2.1 MANUFACTURER:** Regupol Sonus-Wave by Regupol America, LLC

- A. Acceptable Manufacturer:  
Regupol America, LLC  
11 Ritter Way  
Lebanon, PA 17042.  
Toll Free Tel: (800) 537-8737.  
Tel: (717) 675-2198.  
Fax: (717) 675-2199.  
Email: bmd@regupol.com.  
Web: [http:// www.Regupol.com](http://www.Regupol.com).

- B. Substitutions: Not permitted.

- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

**2.2 PRODUCT**

- A. Regupol SonusWave SW48  
Recycled rubber Impact  
Sound Insulation

**1. Material:**

- A. Made from 100% recycled SBR (Styrene-Butadiene Rubber) tire rubber. SonusWave SW48 is a dimpled resilient rubber based mat that can be applied under gypsum or full weight concrete.

**2. Physical Characteristics:**

- A. 8mm thick with 4mm dimple
- B. 48" inches by 25 ft rolls.
- C. Material Weight .75 lb/ft<sup>2</sup>

**3. Impact Insulation Class**

- A. 16" open web truss assembly w/gypsum topping (IIC 57) STC (64) 8mm SonusWave, ¾" plywood, nail down hardwood
- B. Regupol Sonus ISO6 rubber Perimeter Isolation Strip

**1. Material:**

- A. Made from 100% recycled SBR (Styrene-Butadiene Rubber) tire rubber.

**2. Physical Characteristics:**

- A. 4" x 5' x ¼" thick rubber isolation strips to be installed around perimeter or any protruding object in room to avoid sound flanking paths

- C. 4 Mil Polyethylene Film (not required with plywood or eng. hardwood)

**1. Material:**

- A. 4 mil Polyethylene sheeting to be installed over Sonus-Wave SW48 to prevent leakage of lightweight gypsum or concrete topping

**PART 3 EXECUTION****3.1 EXAMINATION**

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

**3.2 PREPARATION**

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

**3.3 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.

**3.4 PROTECTION**

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

The information and data contained herein are based on industry accepted testing, manufacturing tolerances and prior product usage as set forth. It is intended as descriptive of the performance characteristics and capabilities of Regupol/Regufoam and does not certify applicability for any particular or specific project. Technical assistance, calculations and design recommendations are available from Regupol America, and are subject to terms and conditions provided upon request.