SECTION 03 54 01

SELF-LEVELING CEMENTITIOUS UNDERLAYMENT

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Maxxon Corp.; sound control systems.  
This section is based on the products of Maxxon Corp., which is located at:920 Hamel Rd., P. O. Box 253Hamel, MN 55340Toll Free Tel: 800-356-7887Tel: 763-478-9600Email: [request info (info@maxxon.com)](https://arcat.com/rfi?action=email&company=Maxxon%252BCorp.&message=RE%253A%2520Spec%2520Question%2520(03541mci)%253A%2520&coid=34073&spec=03541mci&rep=&fax=)  
Web: <http://www.maxxoncorporation.com>   
 [ [Click Here](https://arcat.com/company/maxxon-corp-34073) ] for additional information.  
Gyp-Crete was only the beginning.  
Maxxon, The Floor Specialists, is recognized as the pioneer and leader in floor technologies. From the original Gyp-Crete® Floor Underlayment, Maxxon's comprehensive product line has expanded to include gypsum and self-leveling underlayments, sound control mats, and several other specialty products including a low density deep fill.  
Ideal for renovation, commercial, multifamily, or single-family applications, Maxxon can solve any floor challenge. Maxxon Underlayments can be installed in wood frame, concrete construction, or over corrugated steel deck in steel frame construction.  
Maxxon gypsum underlayments, Level-Right, and Acousti-Mat Sound Control Mats are GREENGUARD Gold Certified. Maxxon products offer the complete package with fast installation, proven performance, and may also help contribute toward points for LEED® project certification.  
New Product Highlights:  
In an effort to reduce consumer confusion, the Acousti-Mat line naming conventions have been altered to feature straightforward product descriptions and reflect the way the AEC community discusses sound control...by thickness! To simplify product selection and leverage awareness of the Acousti-Mat brand name, Maxxon has established new naming conventions for the product line. Effective August 1st, 2018, the following naming conventions have taken effect:  
All Maxxon entangled mesh mats will be known as Acousti-Mat®.  
Each mat will be distinguished by thickness expressed as a fraction.  
The High Performance (HP) upgrade will be retitled as "Premium". It will continue to be available as an option on the 1/4", 3/8" and 3/4" sound mats.  
Please review the new product names:  
Acousti-Mat 1/8.  
Acousti-Mat 1/4, Acousti-Mat 1/4 Premium.  
Acousti-Mat 3/8, Acousti-Mat 3/8 Premium.  
Acousti-Mat 3/4, Acousti-Mat 3/4 Premium.  
Acousti-Mat: Quiet Confidence.  
There is a new option for deep fill applications where system weight is a consideration. Level-Right® LDF is a revolutionary, lightweight product made from Portland cement and a proprietary expanded polystyrene foam aggregate. The aerated foam aggregate gives the cement a range of unique properties, making it perfect for deep fill applications.

1. GENERAL
   1. SECTION INCLUDES
      1. Cementitious self-leveling floor underlayment.
   2. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 03 54 00 - Cast Underlayment.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
       1. ASTM C 109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or 50-mm Cube Specimens).
       2. ASTM C 348 - Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Data substantiating compliance with specified physical properties.
        2. Storage and handling requirements and recommendations.
        3. Surface preparation instructions and recommendations.
        4. Details of terminations and interfaces with other materials.
        5. Installation requirements and methods.
  2. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in providing products of the type specified in this section, with minimum of 5 years documented experience with products in use.
     2. Applicator Qualifications: Authorized by manufacturer, using manufacturer approved mixing and/or pumping equipment.
  3. DELIVERY, STORAGE, AND HANDLING
     1. Materials shall be delivered in their original, unopened packages, and protected from exposure to the elements.
     2. Damaged or deteriorated materials shall be removed from the premises.
     3. Store products in manufacturer's unopened packaging until ready for installation.
  4. PROJECT CONDITIONS
     1. 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 recommended limits.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Maxxon Corp., which is located at:920 Hamel Rd., P. O. Box 253Hamel, MN 55340Toll Free Tel: 800-356-7887Tel: 763-478-9600Email: [request info (info@maxxon.com)](https://arcat.com/rfi?action=email&company=Maxxon%252BCorp.&message=RE%253A%2520Spec%2520Question%2520(03541mci)%253A%2520&coid=34073&spec=03541mci&rep=&fax=);Web: <http://www.maxxoncorporation.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
  1. MATERIALS
     1. Cementitious Underlayment: Maxxon Commercial Level EZ Floor Underlayment for Topping Concrete by Maxxon Corp.
        1. Material: Polymer Modified Cementitious Underlayment.
        2. Attributes: No mechanical preparation required in most applications; fast setting, ready for foot traffic in 4 hours; compatible with in-floor radiant heating systems.
        3. Working Time: 15 to 18 minutes.
        4. Coverage at 1/4 inch (6 mm) thickness: 21 sq.ft. (1.9 sq.m.)
        5. Levels: From 1/4 to 2 inches (6 to 51 mm).
        6. Compressive Strength, per modified ASTM C 109M, at 28 days: 4500 psi (31.0 MPa).
        7. Flexural Strength: ASTM C 348, at 28 days: 1000 psi (6.9 MPa).
        8. Sand Aggregate:
           1. Material: Washed masonry or plaster sand.
           2. Particle Size: 1/8 inch (3.2 mm) or less.
           3. Compliance: Maxxon Sand Specifications 101.
        9. Mix Water: Potable, free from impurities and from a domestic source.
     2. Floor Primer at All Locations: Maxxon Acrylic Sealer.

\*\* NOTE TO SPECIFIER \*\* Delete vapor mitigation if not required.

* + 1. Vapor Mitigation: Aquafin Vaportight Coat SG2, SG3 or SG4 as recommended by manufacturer.
    2. Mix Designs: Mix proportions and methods shall be in strict accordance with product manufacturer recommendations.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
      2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
      3. Concrete shall be structurally sound and free of mud, oil, grease, and other contaminating factors. Shot blast or scarify as required by manufacturer.
      4. Fill cracks and voids with a quick setting patching or caulking material where leakage of topping could occur.
      5. Prime concrete using the manufacturer approved primer in accordance with manufacturer's instructions according to the porosity of the concrete. Provide multiple coats if necessary.
      6. Allow joints to continue through the underlayment at the same width.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions.
         1. Application shall not begin until the building is enclosed, including roof, windows, doors, and other fenestration. Install after drywall installation unless tenant finish requirements identify partitioning after the pour.
         2. Fill cracks and voids in subfloor where leakage of slurry could occur.
         3. Prime substrate according to manufacturer's recommendations.
         4. Comply with manufacturer's recommended dry time before installing flooring.
   4. PROTECTION
      1. Protect installed products until completion of project.
      2. During construction, place temporary wood planking over toppings wherever they will be subject to heavy wheeled or concentrated loads.
      3. Touch-up, repair or replace damaged products before Substantial Completion

END OF SECTION