When looking for a solution for topping corrugated steel deck, look no further than Dek C-Ment. With compressive strengths up to 4,000 psi (27.6 psi), Dek C-Ment provides a thinner solution for topping corrugated steel decking than traditional concrete. By requiring only a single pour for both interior and limited exterior locations, Dek C-Ment saves time and labor expense on your project. Dek C-Ment takes foot traffic in as little as 90 minutes, allowing light trade work to resume and moving your project towards completion more quickly.

Now with Dek C-Ment, controlling sound waves in steel deck construction is no problem. A Maxxon® sound control mat can be installed with Dek C-Ment to significantly reduce impact and airborne sound transmission.

Dek C-Ment is an eco-friendly building product, and meets the stringent VOC requirements of GREENGUARD Gold Certification.
TECHNICAL DATA

Compressive Strength: Up to 4,000 psi (27.6 MPa) when tested in accordance with modified ASTM C109M

Density: 115 lbs pcF (1842 kg/m³)

Thermal Resistance: R-Value 1" (25 mm) = 0.202

Coefficient of Conductivity (K): 4.76 Btu/in.°F ft (0.6854 W/(m•°C))

Specific Heat: 0.229 Btu/lb°F at 85 °F (.9595 kJ/kg•°C at 29.44 °C)

Fire Performance ASTM E-84

Fuel Contribution: 0

Smoke Density: 0

Flame Spread: 0

VOC Emissions: GREENGUARD Gold Certified

PREPARATION

Building interior should be enclosed and maintained at a temperature above 50 °F (10 °C) until structure and subfloor temperatures are stabilized. The subfloor must be broom clean and contaminant free. Before pouring Dek C-Ment, the subfloor is coated with a company-approved primer. For steel deck applications contact Maxxon Corporation for preparation/installation details.

INSTALLATION METHODS

The minimum thickness of Dek C-Ment varies with the type of floor system. Dek C-Ment can be featheredged over concrete substrates. Over wood frame construction, the minimum thickness is 3/4" (19 mm). It can be poured before or after drywall. Over galvanized corrugated steel deck, poured 1" (25 mm) over the top of the flutings, average pour thickness is 1/2" (40 mm).

Continuous ventilation and adequate heat should be provided to rapidly remove moisture from the area until the underlayment is dry. The general contractor/project superintendent must supply mechanical ventilation and heat if necessary. Under the above conditions, drying time is usually 5–7 days. Reference the brochure Building Conditions Guide for complete installation guidelines. Dek C-Ment can also be installed over a Maxxon sound control mat. Installation procedures can be found in Maxxon’s Sound Control Systems brochure. Dek C-Ment is listed in over 100 UL Fire Ratings, including several steel deck designs. For complete installation instructions, contact Maxxon Corporation.

Dek C-Ment requires a floor covering. Contact your authorized dealer for recommendations for adhering floor goods, or contact Maxxon Corporation for a copy of the brochure Procedures for Attaching Finished Floor Goods to Maxxon Underlayments. It is the responsibility of the floor goods installer to determine the compatibility of their product with a particular floor underlayment.

LIMITATIONS

1. The typical maximum depth of Dek C-Ment is 3" (76 mm). For depths greater than 3" (76 mm), contact an authorized applicator.

2. Dek C-Ment may be scheduled before or after installation of drywall.

3. All materials above crawl spaces must be protected by a vapor barrier. The general contractor/project superintendent is responsible to maintain a low relative humidity both before and after placement of Dek C-Ment. The general contractor/project superintendent — not Maxxon Corporation or the Maxxon applicator — must account for large loads that can occur in a building. In reality these loads are not uniform, but rather consist of items such as office chairs, wheel chairs, and motorized scooters adding turning, twisting, repetitive, and other dynamics which should also be taken into consideration. Determining the appropriate structural design of the floor is not the responsibility of Maxxon nor the Maxxon applicator.

4. During construction, place temporary wood planking over the underlayment wherever it will be subjected to heavy wheeled or concentrated loads.

5. Dek C-Ment is not designed to be installed on or below grade, except over well-drained structural substrates.

6. Dek C-Ment cannot resist stresses caused by structural movement.

7. The structural subfloor and floor joist must comply with manufacturers’ maximum span criteria. Typically a deflection limitation of L/360 is adequate for Dek C-Ment. Some floor coverings such as marble, stone, travertine, and ceramic tile may require a stiffer floor system. Dek C-Ment is non-structural and therefore cannot be expected to reinforce structurally deficient subfloors. The general contractor/project superintendent, architect, specifier, or building owner should make necessary allowances for expected live, concentrated, impact, and/or dead loads including the weight of finished floor goods and setting beds.

8. Additional consideration should be taken for concentrated/dynamic loads. U.S. building codes typically specify a uniform live load of 40 pounds per square foot for residential floor designs. This load is intended to account for large loads that can occur in a building. In reality these loads are not uniform, but rather consist of items such asoffice chairs, wheel chairs, and motorized scooters adding turning, twisting, repetitive, and other dynamics which should also be taken into consideration. Determining the appropriate structural design of the floor is not the responsibility of Maxxon nor the Maxxon applicator.

9. When installing Dek C-Ment in an exterior application, manufacturer’s installation guidelines must be followed.

10. Due to the unique nature of light gauge steel construction, it may be necessary to pour Dek C-Ment before doors and windows are installed. Contact Maxxon Corporation for installation details.

11. Dek C-Ment should not be directly applied to a plastic vapor barrier.

12. Dek C-Ment is “breathable” and not a vapor barrier. The general contractor/project superintendent, architect, specifier, or building owner shall test below grade, on grade, or elevated slabs for MVER requirements for the finished flooring system, the concrete must be treated with a moisture vapor barrier, such as Maxxon DPM or Maxxon MVP, before installation of Dek C-Ment.

ACOUSTICAL PERFORMANCE

The acoustical performance of all Maxxon Underlayments is similar. Visit www.Maxxon.com or contact Maxxon Corporation for reports.

CODE LISTINGS


FIRE RATINGS

UL Design

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