



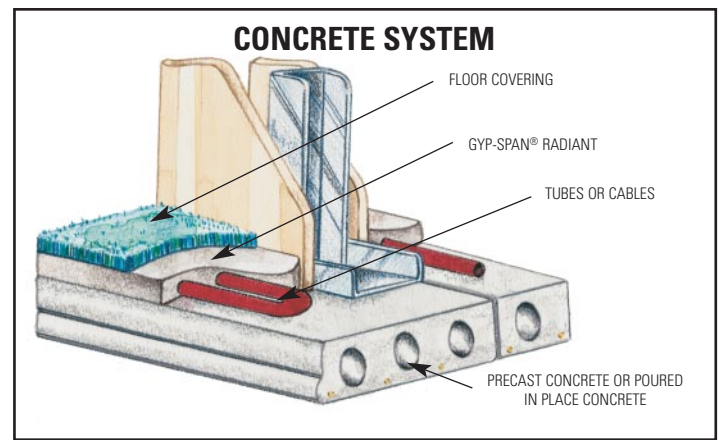
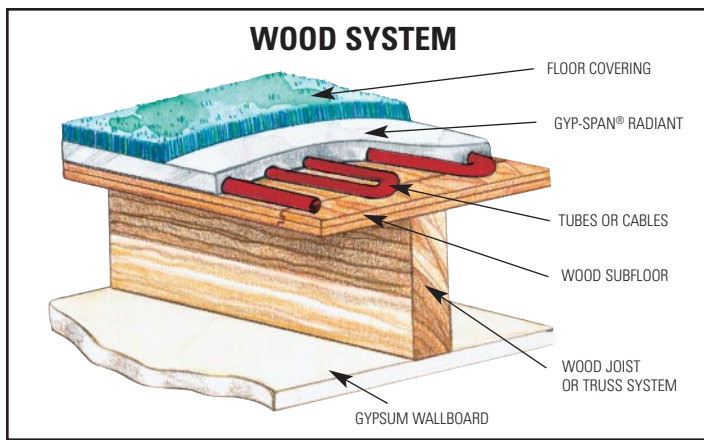
Gyp-Span[®]

RADIANT

GYP-SPAN[®] RADIANT is a high strength, crack-resistant gypsum concrete designed for use over hot water tubes or electric cables.

GYP-SPAN[®] RADIANT locks radiant tubes in place and evenly distributes heat throughout, providing a smooth, flat and warm subfloor ready for finished floor coverings.

- Energy efficient
- No shrinkage cracks
- Flattens irregular subfloors
- Improves STC and IIC ratings
- Listed in over 82 UL Assemblies
- Compressive strengths up to 3300 psi
- Installed by trained Licensed Applicators



Recommended Specifications

PART I GENERAL

1.1 Scope – Specify to meet project requirements

- A. Work included:
 1. **GYP-SPAN® RADIANT**
 2. Hacker Floor Primer

1.2 Qualifications

- A. **GYP-SPAN® RADIANT** shall be installed by Licensed Applicators of Hacker Industries, Inc., using approved mixing and pumping equipment.
- B. **GYP-SPAN® RADIANT** shall be delivered in original, unopened bags and protected from exposure to the elements after delivery. Do not allow material to get wet.
- C. Install before or after drywall unless otherwise specified.
- D. Before, during, and after installation of **GYP-SPAN® RADIANT**, the building interior must be continuously ventilated and heated to a minimum of 50°F (approx. 10°C).
- E. Compressive strength can be specified from 2000 psi to 3300 psi (approx. 13.8 to 22.8 MPa).
- F. All materials specified herein shall be approved by Hacker Industries, Inc.

PART II PRODUCTS

2.1 Materials

- A. Gypsum Concrete: **GYP-SPAN® RADIANT** as supplied by Hacker Industries, Inc.
- B. Hacker Floor Primer
- C. Hacker Floor Sealer
- D. Sand: 1/8" (approx. 3mm) or less washed plaster or mortar sand meeting requirements of Hacker Industries, Inc. Sand Guidelines.
- E. Mix Water: Potable and free from impurities.

PART III EXECUTION

3.1 Condition of Subfloor

- A. The General Contractor is responsible for providing a structurally sound (L/360) subfloor, broom cleaned, and free of oil, grease or other contaminants.
- B. Before installation, the General Contractor shall inspect and approve the condition of the subfloor.

3.2 Preparation of Subfloor

- A. All cracks and voids should be filled with a quick-setting taping compound to prevent leakage.
- B. Plywood/OSB: Spray one coat Hacker Primer using one gallon (approx. 3.8L) per 500 square feet (approx. 46 sq.m).
- C. Other substrata: Conditions may vary. Consult Hacker Industries, Inc. for recommended floor preparation.

3.3 Mixing Instructions

- A. 4 to 6 gallons (approx. 15.1 to 22.7 L) of water and sand as specified per 80 pound (approx. 36.3 kg) bag of **GYP-SPAN® RADIANT**. Do not overwater. Water amount will change with wetness of sand.
- B. **GYP-SPAN® RADIANT** mix proportions and methods shall be in strict accordance with Hacker recommendations.

3.4 Underlayment Application

- A. Application: Gyp-Span® Radiant can be installed in one or two lifts. The minimum thickness over radiant heating system is 3/4" (approx. 19mm) over the top of the tubes or cables. Place as continuously as possible until installation is complete.
- B. Protection: After installation, temporary wood planking should be placed wherever the underlayment will be subject to heavy wheeled or concentrated loads.

- C. Drying: Prior to the installation of finished floor goods, the **GYP-SPAN® RADIANT** must be free from any moisture. The General Contractor shall provide continuous ventilation and adequate heat to rapidly remove moisture from the area until the underlayment is dry. Consult flooring contractor for recommended procedures to test for dryness.
- D. **GYP-SPAN® RADIANT** is suitable for interior applications only and must be covered by a finished floor material.

3.5 Preparation for Installation of Floor Coverings

- A. Sealing: Any areas where the underlayment surface has been damaged shall be cleaned and sealed regardless of floor covering specified. Floor covering manufacturers' specifications and requirements supercede these recommendations.
- B. Floor Covering Procedures: Please see Hacker Industries, Inc.'s "Guidelines for Installing Finished Floor Coverings." The guideline is not a warranty and should be used as a guideline only.

3.6 Field Quality Control

- A. Slump Test: **GYP-SPAN® RADIANT** shall be tested for slump as it is being installed using a 2" by 4" (approx. 51mm by 102mm) cylinder. The patty size should be 7 1/2" (approx. 191mm) plus or minus 1/2" (approx 13mm) in diameter.
- B. Field Samples: Testing of molded cube samples shall be in accordance with ASTM: C472 modified using split brass molds. Prior to independent sampling, contact Hacker Industries, Inc., to insure proper ASTM methods are followed.



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For the Licensed Applicator in your area, please call our toll-free number (800) 642-3455.