

FusionTEC™

Integrated Floor Systems

Self-Leveling Topping over Gypsum Underlayment and Sound Mat



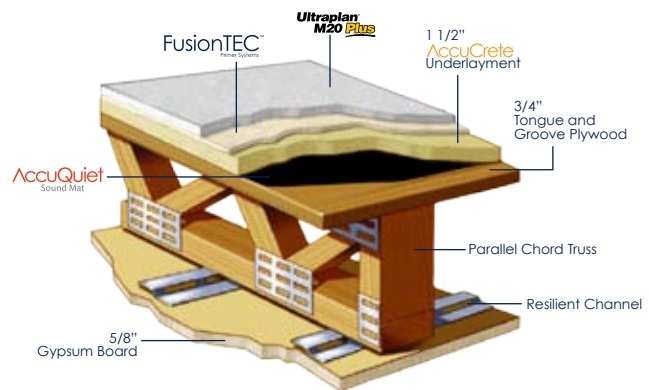
System Description

Now concrete floors in wood-frame construction are possible with FusionTec™ Integrated Floor Systems. FusionTec™ combines the fire-rated and sound deadening technologies of AccuCrete® Gypsum Underlayment and AccuQuiet® Sound Mat with the self-leveling topping, UltraPlan® M20 Plus:

- Fire-rated floor-ceiling assemblies of wood or concrete construction (AccuCrete® is UL classified in over 50 designs).
- Sound attenuated floor-ceiling assemblies with AccuQuiet® Sound Mat is approved for use in conjunction with AccuCrete® in UL fire-rated systems. Reduces impact noise (IIC) by up to 15 points in wood frame construction and 20 points in concrete construction.
- Affordable Renovation: Use AccuCrete® as an economical deep fill for leveling applications to be capped with Ultraplan® M20 Plus.
- Decorative cement surface in virtually any structure, provided it meets minimum deflection criteria requirements of L/360.
- Cement wear surface applied over AccuRadiant® Pourable Thermal Underlayment for radiant floor heating systems in residential or commercial construction.

Example Assembly

- 18" deep open-web truss joist, 24" O.C., 3/4" T&G Plywood subfloor, single layer batt insulation, RC-1, and single layer 5/8" fire-rated ceiling board. Assembly topped with AccuQuiet® Sound Mat, 1.5" AccuCrete®, and 1/4" Ultraplan® M20 Plus.
- Robinson Wheel Test (ASTM C-627): Extra Heavy Commercial Rating

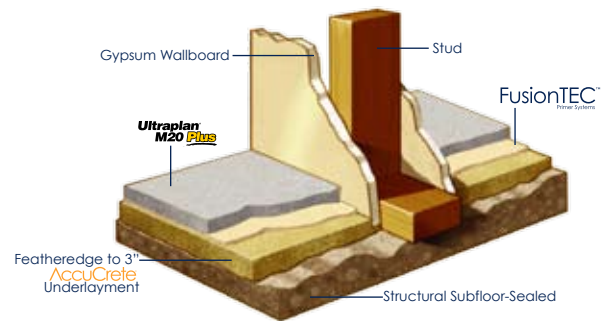


FIRE-RATED DESIGN: UL-L576

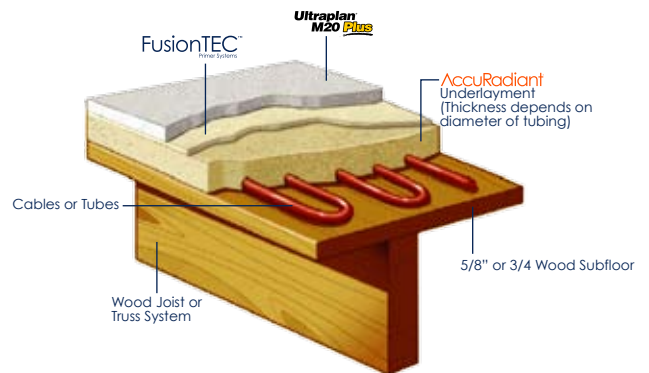
Limitations:

- FusionTEC™ Integrated Floor Systems is designed for residential and commercial use, and is approved for light rubber wheeled and pedestrian traffic. It is not intended for use in heavy commercial or industrial settings (heavy-rolling loads or high point-loads).
- When installed over wood substrates, 1.5" minimum thickness AccuCrete® or 1" minimum with reinforcing wire lath is required, and a minimum AccuCrete® compressive strength of 3,000 PSI.
- When used in conjunction with AccuQuiet®, this system requires a minimum of 1.5" of AccuCrete® at a minimum compressive strength of 3,000 PSI.
- In bonded systems, expansion joints must be honored by saw-cutting the AccuCrete® and Ultraplan® M20 Plus to the depth of the original substrate, and to the width of the original expansion joint.
- When used at or below grade, a moisture vapor barrier is required.
- This system approved for use only with AccuCrete® and AccuRadiant®.
- This system is for interior use only.

Other ideal applications for FusionTEC™ Integrated Floor Systems:




RENOVATION




RADIANT FLOOR HEATING

Product Description


**Ultraplan®
M20 Plus**

A quick-setting, self-leveling concrete topping and underlayment. Its light grey color is designed to accept integral color pigments, architectural stains and commercial sealers and coatings. It provides a uniform pallet for unique decorative floors in a variety of residential and commercial settings. 

AccuCrete®

Fast-setting pourable gypsum based underlayment. Designed for leveling concrete substrates, fire-resistive assemblies, or radiant heat applications (AccuRadiant®). Provides a dense, hard substrate to receive a variety of floor covers, or Ultraplan® M20 Plus! Consult product submittals for a listing of fire-rated designs. 

**AccuQuiet®
Sound Mat**

Approved for use in conjunction with AccuCrete® in fire-rated assemblies. Improves STC and IIC Ratings in a multitude of assemblies and becomes an imbedded sound control system. Consult product submittals for specific details. 

Notice: All Statements and information provided herein are accurate and complete to the best of our knowledge. For full details for each component of FusionTEC™ Integrated Floor Systems, refer to the published technical data sheets from the manufacturers. Robinson Wheel Tests were conducted in accordance with ASTM C-627 over a 16' span. Acoustical tests were conducted by an independent, fully accredited laboratory. Components of the FusionTEC™ Integrated Floor Systems will meet the published physical properties when shipped from the factory. Because we do not install the FusionTEC™ Integrated Floor Systems, we do not warrant the installation or in-situ performance of the system under any circumstance. We shall not be liable for incidental or consequential damages directly or indirectly caused, nor any loss caused by the installation of the system. We expressly limit our liability to replacement of defective goods. Any claim shall be waived unless received in writing within 30 days from when it was or reasonably should have been discovered. MAPEI® and UltraPlan® are registered trademarks of MAPEI® Corporation, Deerfield Beach, FL. AccuCrete®, AccuRadiant®, and AccuQuiet® are registered trademarks of Allied Custom Gypsum Plasterworks, LLC, Norman, OK. MSDS sheets are available upon request from the manufacturers. ACG Plasterworks, LLC - Phone: 800-624-5963 www.accucrete.com . MAPEI® Corporation - Phone: 800-42-MAPEI - www.mapei.com . 120-7 (Rev. 1/09)


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