

### FIRM-FILL® Gypsum Concrete

FIRM-FILL® Gypsum Concrete - designed for use in multi-family housing to satisfy acoustical ratings and fire codes. With excellent STC and IIC ratings as well as over 86 UL listings, it is an excellent choice for jobs needing compressive strengths up to 2000 psi.

|                       |   |
|-----------------------|---|
| Weight:               | 7 psf @ 3/4"                                      |
| Thickness:            | 3/4" (19mm) minimum over wood                     |
| Compressive Strength: | 1200-2000 psi                                     |
| Patty Size:           | 8" (203mm) +/- 1/2" (13mm)                        |
| Sand Requirements:    | 1/8" (3mm) or less washed plaster or masonry sand |

Surface can be walked on in 90 minutes; finished floor coverings installed in 10 - 14 days, depending on thickness and drying conditions.



Contributes towards multiple LEED® credit areas

### FIRM-FILL® 2010

FIRM-FILL® 2010 - designed for use over wood floors, it creates additional surface hardness and stiffens the sub-floor to eliminate squeaks and nail pops creating a durable, flat surface with compressive strengths up to 2500 psi.

|                       |   |
|-----------------------|---|
| Weight:               | 7.2 psf @ 3/4"                                    |
| Thickness:            | 3/4" minimum over wood                            |
| Compressive Strength: | 1600-2500 psi                                     |
| Patty Size:           | 8" (203mm) +/- 1/2" (13mm)                        |
| Sand Requirements:    | 1/8" (3mm) or less washed plaster or masonry sand |

Surface can be walked on in 90 minutes; finished floor coverings installed in 10 - 14 days, depending on thickness and correct drying conditions.



Contributes towards multiple LEED® credit areas

### FIRM-FILL® 3310

FIRM-FILL® 3310 - offers an innovative formulation that decreases the amount of water used while enhancing the rock-solid strength of the floor, up to 3300 psi. It helps maximize sound control and creates a flat, smooth surface for finished floor coverings.

|                       |   |
|-----------------------|---|
| Weight:               | 7.6 psf @ 3/4"                                    |
| Thickness:            | 3/4" minimum over wood                            |
| Compressive Strength: | 2000-3300 psi                                     |
| Patty Size:           | 7-1/2" (191mm) +/- 1/2" (13mm)                    |
| Sand Requirements:    | 1/8" (3mm) or less washed plaster or masonry sand |

Surface can be walked on in 90 minutes; finished floor coverings installed in 7 - 14 days, depending on thickness and drying conditions.



Contributes towards multiple LEED® credit areas

### FIRM-FILL® High Strength

FIRM-FILL® High Strength - the economical solution to resurface cracked or damaged concrete floors in commercial, residential or institutional applications. Provides an exceptionally hard surface with compressive strengths up to 3800 psi.

|                       |   |
|-----------------------|---|
| Weight:               | 7.7 psf @ 3/4"  |
| Thickness:            | Feather-edge to 3-1/2" (89mm)                             |
| Compressive Strength: | 2500-3800 psi   |
| Patty Size:           | 7-1/2" (191mm) +/- 1/2" (13mm)                            |
| Sand Requirements:    | 1/8" (3mm) or less washed plaster, silica or masonry sand |

Surface can be walked on in 90 minutes; finished floor coverings installed in 7 - 14 days, depending on thickness and drying conditions.



Contributes towards multiple LEED® credit areas

### FIRM-FILL® 4010

FIRM-FILL® 4010 - an exceptionally durable cementitious underlayment for thin capping of concrete projects that require the ultimate compressive strength, up to 5500 psi.

|                       |   |
|-----------------------|---|
| Weight:               | 7.8 psf @ 3/4"                                    |
| Thickness:            | Feather-edge to 1-1/2" (26mm)                     |
| Compressive Strength: | 3500 to 5500 psi                                  |
| Patty Size:           | 7" (177mm) +/- 1/2" (13mm)                        |
| Sand Requirements:    | 1/8" (3mm) or less washed plaster or masonry sand |

Surface can be walked on in 90 minutes; finished floor coverings installed in 7 - 14 days, depending on thickness and proper drying conditions. It is the ideal underlayment to meet ASTM F 710, *Preparing Concrete to Receive Resilient Flooring*.



Contributes towards multiple LEED® credit areas

### FIRM-FILL® CMD

FIRM-FILL® CMD - for light-gauge steel frame construction with a corrugated galvanized steel deck. Lightweight, cost-effective solution to build higher and faster, while achieving excellent sound and fire-ratings.

|                       |   |
|-----------------------|---|
| Weight:               | 12.8 psf @ 1-9/16"                                |
| Thickness:            | 1" over flutes, total of 1-9/16"                  |
| Compressive Strength: | Minimum 3500 psi                                  |
| Patty Size:           | 8-1/2" (216mm) +/- 1/2" (13mm)                    |
| Sand Requirements:    | 1/8" (3mm) or less washed plaster or masonry sand |

Surface can be walked on in 90 minutes; finished floor coverings installed in 10 - 14 days, depending on thickness and drying conditions.



Contributes towards multiple LEED® credit areas

### GYP-SPAN® Radiant

GYP-SPAN® Radiant - installed over hydronic tubes or electrical cables, it acts as an efficient thermal mass for even distribution of heat without hotspots, air bubbles or shrinkage cracks.

|                       |   |
|-----------------------|---|
| Weight:               | 14.6 psf @ 1-1/2"                                 |
| Thickness:            | 3/4" over tubes, total of 1-1/2"                  |
| Compressive Strength: | 2000-3200 psi                                     |
| Patty Size:           | 8" (203mm) +/- 1/2" (13mm)                        |
| Sand Requirements:    | 1/8" (3mm) or less washed plaster or masonry sand |

Surface can be walked on in 90 minutes; finished floor coverings installed in 10 - 14 days, depending on thickness and drying conditions.



Contributes towards multiple LEED® credit areas

### TRUE-SCREED® CLU

TRUE-SCREED® CLU - Portland cement-based, leveling underlayment that is specifically designed for projects that need to stay on budget. Transforms cracked, uneven concrete floors into a smooth, strong surface for finished floor coverings.

|                       |   |
|-----------------------|---|
| Weight:               | 4.87 psf @ 1/2"   |
| Thickness:            | 1/2" - 2"   |
| Compressive Strength: | up to 6000 psi  |
| Sand Requirements:    | 1/8" (3mm) or less washed plaster, silica or masonry sand |

Depending on substrate, shotblasting, scarifying or sandblasting to meet ICRI CSP 3+ may be required. Installation of finished floor coverings in as little as 24 hours, depending on thickness.



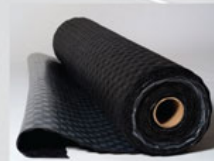
Contributes towards multiple LEED® credit areas

### Hacker Sound Mat II

Hacker Sound Mat II - a durable, environmentally-friendly sound control mat composed of 100 percent recycled rubber that helps provide a quieter environment and meets demanding project specifications.

|                        |                              |
|------------------------|------------------------------|
| Weight:                | 95 oz./sq. yd.               |
| Thickness:             | 1/4"                         |
| Width:                 | 54"                          |
| Phil Test DOC-FF 1-70: | Pass                         |
| Steiner Tunnel Test:   | NFPA Class B<br>UBC Class II |

Helps projects obtain LEED® credits while reducing sound transmission; increases STC and IIC ratings. System rated for commercial & residential use per ASTM C627.



Contributes towards multiple LEED® credit areas

### Hacker TopCoat™ SP

Hacker TopCoat™ SP - an acrylic-based, film-forming surface preparation agent designed for use over gypsum concrete floor underlayments. When used in conjunction with (HFU), it provides the optimal surface preparation agent for resilient floor coverings per ASTM F2419.

- For use between HFU and floor covering adhesives
- Built-in color identifier to assure compliance with ASTM Standards
- Available from trained, Licensed Applicators of Hacker Industries, Inc.

Approved Hacker Floor Underlayments: FIRM-FILL® Gypsum Concrete, FIRM-FILL® 2010, FIRM-FILL® 3310, FIRM-FILL® High Strength, FIRM-FILL® 4010 FIRM-FILL® CMD and GYP-SPAN® Radiant.







Hacker Industries, Inc. was established upon the simple belief that when given a choice of floor underlayments, the building community would choose the product of greater value. This basic mission statement has formed the foundation of a growing business for the past 25 years. Our consistent commitment has been to supply extraordinary value through the highest quality floor underlayments applied by the best Licensed Applicators.

Since 1983, over two billion square feet of Hacker Floor Underlayments have been installed in residential, multi-family and commercial projects across North America. Over wood, steel deck, concrete or radiant tubes, Hacker Floor Underlayments provide sound and fire resistance, an effective thermal mass and a flat, solid surface for finished floor coverings.



All Hacker floor underlayments meet ASTM F2419; Standard Practice for the Installation of Thick Poured Gypsum Concrete Underlayments. With 86 Underwriters Laboratories listings, and approvals from ICC-ES and HUD, our products meet demanding project specifications and exceed the expectations of everyone involved in the construction project. Hacker Industries is a member of NAHB's National Council of the Housing Industry - The Supplier 100.



Hacker Industries, Inc. does not sell its products directly to the general public. Rather, it provides distribution through a network of trained, Licensed Applicators. This ensures that the end user will have the highest quality floor available in the market today.



Let Our Products Floor You®.



**Hacker Industries, Inc.**  
**1600 Corporate Plaza**  
**Newport Beach, CA 92660**

**www.HackerIndustries.com**

**(800) 642-3455**  
**(949) 729-3101**  
**FAX: (800) 906-8548**  
**(949) 729-3108**



### Choosing the Right Underlayment

| Type of Building | Type of Subfloor      | Recommended PSI | FIRM-FILL®<br>Gypsum Concrete | FIRM-FILL®<br>2010 | FIRM-FILL®<br>3310 | FIRM-FILL®<br>High Strength | FIRM-FILL®<br>4010 | GYP-SPAN®<br>Radiant | TRUE-SCREED®<br>CLU |
|------------------|-----------------------|-----------------|-------------------------------|--------------------|--------------------|-----------------------------|--------------------|----------------------|---------------------|
| Multifamily      | Wood-New              | 1200-3300 psi   | R                             | R                  | R                  |                             |                    |                      |                     |
|                  | Wood-Renovation       | 1500-3300 psi   | O                             |                    |                    |                             |                    |                      |                     |
|                  | Concrete-New          | 2500-5500 psi   |                               | O                  | R                  | R                           |                    |                      |                     |
|                  | Concrete-Renovation   | 2500-5500 psi   |                               |                    | O                  | R                           | R                  |                      |                     |
|                  | Corrugated Steel Deck | Min. 3500 psi   |                               |                    |                    |                             |                    |                      |                     |
| Single-family    | Radiant Heating       | 2000-3200 psi   |                               |                    |                    |                             |                    | R                    |                     |
|                  | Wood-New              | 1200-3300 psi   | R                             | R                  |                    |                             |                    |                      |                     |
|                  | Wood-Renovation       | 1500-3300 psi   | O                             |                    |                    |                             |                    |                      |                     |
|                  | Concrete-New          | 2500-5500 psi   |                               | O                  | R                  | R                           |                    |                      |                     |
|                  | Concrete-Renovation   | 2500-5500 psi   |                               |                    | O                  | R                           | R                  |                      |                     |
| Commercial       | Radiant Heating       | 2000-3200 psi   |                               |                    |                    |                             |                    | R                    |                     |
|                  | Wood-New              | 1500-3300 psi   | O                             | R                  |                    |                             |                    |                      |                     |
|                  | Wood-Renovation       | 1500-3300 psi   | O                             |                    |                    |                             |                    |                      |                     |
|                  | Concrete-New          | 2500-5500 psi   |                               | O                  | R                  | R                           |                    |                      | R                   |
|                  | Concrete-Renovation   | 2500-5500 psi   |                               |                    | O                  | R                           | R                  |                      | R                   |

R = Recommended; O = Optional

You may also visit [www.HackerIndustries.com](http://www.HackerIndustries.com) for additional assistance on Choosing the Right Underlayment

### Underwriters Laboratory Design Numbers

|      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|
| G565 | J991 | L206 | L504 | L513 | L522 | L532 |
| L541 | L551 | L562 | J917 | J994 | L208 | L505 |
| L514 | L523 | L533 | L542 | L552 | L563 | J919 |
| K906 | L209 | L506 | L515 | L524 | L534 | L543 |
| L553 | L571 | J920 | L001 | L210 | L507 | L516 |
| L525 | L535 | L545 | L555 | J924 | L004 | L211 |
| L508 | L517 | L526 | L536 | L546 | L556 | J927 |
| L005 | L212 | L509 | L518 | L527 | L537 | L547 |
| L557 | J931 | L006 | L501 | L510 | L519 | L528 |
| L538 | L548 | L558 | J957 | L201 | L502 | L511 |
| L520 | L529 | L539 | L549 | L559 | J966 | L202 |
| L503 | L512 | L521 | L530 | L540 | L550 | L560 |
| L585 | L598 |      |      |      |      |      |

### Code Approvals

ICC-ES Legacy Report ER-4147

City of Los Angeles Research Report No. 24540  
Metropolitan Dade County, Florida No. 96-0516.03

FHA-HUD MR1255

UL of Canada Design Numbers L512, M505, M506, M507, M508, M509, M518

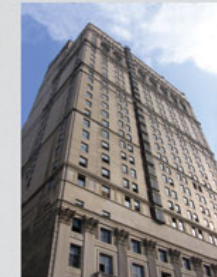
Tile Council of North America Methods (F180, F200, RH111, RH122)

### Quality Control

Hacker Floor Underlayments are installed by Licensed Applicators who are trained by Hacker Industries, Inc. to adhere to Quality Assurance Standards, which include compressive strength testing, field quality audits, technical updates and continuing education seminars.

**FOR AN ESTIMATE, PLEASE CONTACT YOUR LOCAL LICENSED APPLICATOR:**

## Hacker Industries, Inc.



### PRODUCT GUIDE

**Firm-Fill**  
Gypsum Concretes

**Gyp-Span**  
Radiant

**True-Screed**  
Cementitious Underlayment